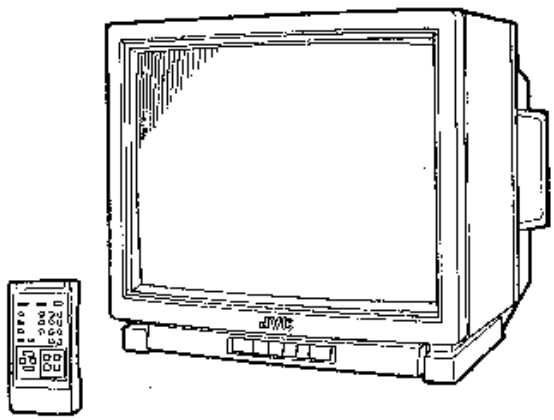
JVC

SERVICE MANUAL

27" COLOR MONITOR / RECEIVER

AV-2751S(US)
AV-2761S(US)

BASIC CHASSIS
GY



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★STANDARD CIRCUIT DIAGRAM(APPENDED)

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No.50530
Jun. 1991

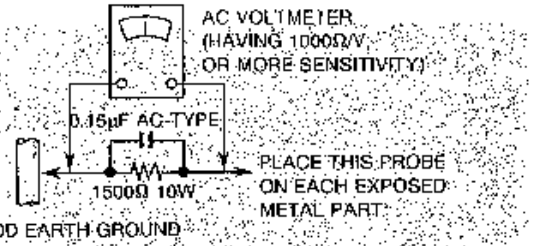
SPECIFICATIONS

Item	Content
Dimensions	65.1cm (W)×52.0cm (D)×67.5cm (H)
Weight	37.2kg
TV System and Color, Sound system	
TV RF System	CCIR (M)
Color, System	NTSC system,BTSC system (Multichannel sound)
TV Receiving Channels and Frequency	
VL Band	(02 ~ 06) 54MHz ~ 88MHz
VH Band	(07 ~ 13) 174MHz ~ 216MHz
UHF Band	(14 ~ 69) 470MHz ~ 806MHz
CATV Receiving Channels and Frequency	
(Quartz Synthesizer system)	
Low Band	(02 ~ 06) by (02 ~ 06)
High Band	(07 ~ 13) by (07 ~ 13)
Mid Band	(A ~ 1) by (14 ~ 22)
Super Band	(J ~ W) by (23 ~ 36)
Hyper Band	(W+1 ~ W+28) by (37 ~ 64)
ULTRA Band	(W+29 ~ W+84) by (65 ~ 94 ,100 ~ 125)
Sub Mid Band	(A-8,A-4 ~ A-1) by (01,96 ~ 99)
	(54MHz~804MHz)
TV/CATV Total Channel	180 Channels
Intermediate Frequency	
Video IF Carrier	45.75MHz
Sound IF Carrier	41.25MHz (4.5MHz)
SC IF Carrier	42.17MHz
Color Sub Carrier	3.58MHz
Antenna Input Impedance	75Ω (VHF/UHF) Terminal,F-Type Connector
Power Input	120V AC,60Hz
Power Consumption	147W (max.), 103W (avg.)
Picture Tube	27"diagonally measured,In-Line type Full-square tube
Viewable Picture Size	54.1cm (W) × 40.6cm (H)
High Voltage	29.0kV ±1kV (at zero beam current)
Speaker	8×12cm ellipse ×2
External speaker terminals	Impedance 6~8Ω
Audio Power Output	1.2W+1.2W
Video External Input	1 Vp-p 75Ω,RCA-Pin connector
Audio External input	500 mV rms (-4dBs), High Impedance,RCA-Pin connector
S-VIDEO IN	Y:1 Vp-p Positive (Negative sync provided ,when terminated with 75Ω)
	C:0.286 Vp-p (burst signal ,when terminated with 75Ω)
Variable Audio Output	More than 0~1550mV rms (+6dBs)
	Low Impedance (400Hz, 100% modu.),RCA-Pin connector

Design & specification subject to change without notice.

SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may create shock, fire, or other hazards.
4. **Use isolation transformer when hot chassis.**
   The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.
5. **Don't short between the LIVE side ground and NEUTRAL side grounding or EARTH side ground when repairing.**
   Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE (⏚) side GND, the NEUTRAL (⏚) side GND and EARTH (⏚) side GND. Don't short between the LIVE side GND and NEUTRAL side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and NEUTRAL side GND or EARTH side GND at the same time.
   If above note will not be kept, a fuse or any parts will be broken.
6. If any repair has been made to the chassis, it is recommended that the B_1 setting should be checked or adjusted (See ADJUSTMENT OF B_1 POWER SUPPLY).
7. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.) To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approvided by the manufacturer of the complete product.
8. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.
9. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.
10. **Isolation Check**
    (Safety for Electrical Shock Hazard)
    After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
    (1) **Dielectric Strength Test**
    The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.
    (... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
    This method of test requires a test equipment not generally found in the service trade.
    (2) **Leakage Current Check**
    Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.) Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
    • Alternate Check Method
    Plug the AC line cord directly into the AC outlet (do not use a line isolatin transformer during this check.). Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.35V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).



11. **High voltage hold down circuit check**
    After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.
    See item "**How to check the high voltage hold down circuit**"

■ **ONLY CANADA**

This mark shows a fast operating fuse, the letters indicated below show the rating.

OPERATING INSTRUCTIONS

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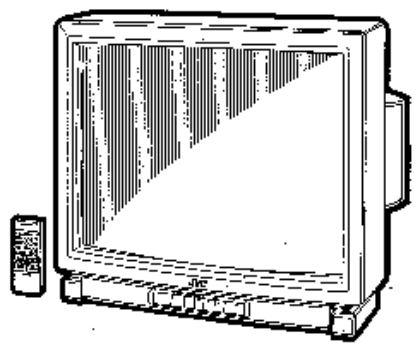
INSTRUCTIONS

AV-2751S/AV-2761S

COLOR MONITOR/RECEIVER

MASTERCOMMAND



JVC
JVC COMPANY OF AMERICA
DIVISION OF US JVC CORP.
41 Slater Drive, Elmwood Park, N.J. 07407

Printed in Japan
2/91,6h BUS IBA

For Customer Use

Enter below the Model No. and Serial No. which are located on the rear of the cabinet. Retain this information for future reference.

Model No.

Serial No.

SAFETY PRECAUTION

CAUTION
CAUTION: TO PREVENT THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Caution:
Changes and modifications not approved by JVC could void the user's authority to operate the equipment.

Caution:
When you do not use this TV set for a long period of time, be sure to disconnect the power plug from the AC outlet for your safety. If the set is plugged into an AC outlet, a small amount of current is applied to the TV set even if the TV set's power is turned off.

Thank you for purchasing a JVC color monitor/receiver (TV). Your JVC TV carries many useful features including the MASTER COMMAND system which allows operation of all TV functions via a single remote control unit.
To ensure your complete understanding, please read all instructions in this booklet before operation.

FEATURES

- 27-inch FS (Full Square) picture tube
- Comb filter for improved picture quality
- 180-Channel cable-compatible frequency synthesizer tuner with built-in MTS decoder
- S-VIDEO input terminal for taking best advantage of Super VHS
- Video/audio input and variable audio output terminals
- Surround sound capability with external speaker terminals
- MASTER COMMAND remote control with multi-color on screen "Menu" display, allowing interactive, total TV operation

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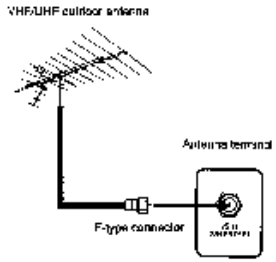
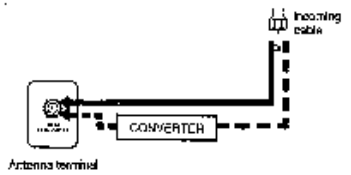
INSTALLATION

ANTENNA CONNECTIONS

An outdoor antenna is recommended for good TV picture reception. (For installation of outdoor antenna system, consult your local dealer.)



CABLE TV CONNECTIONS



- Some cable companies require a converter box to receive all available programs. Others may require it for subscription or "premium" programing. Consult your local cable company for correct installation.
- When connecting both a cable (75-ohm coaxial) and a UHF antenna (300-ohm feeder), use the optional antenna mixer (CE41467) to make a single connection.

Note: With this antenna mixer, reception of cable channels higher than "Channel W + 17" is not possible.

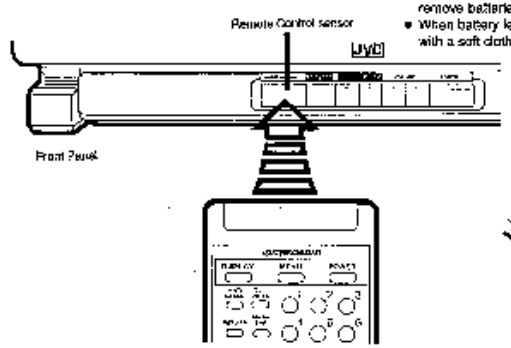
REMOTE CONTROL USE

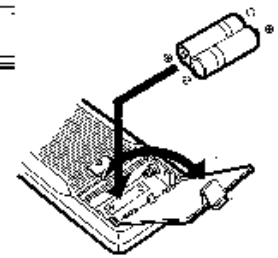
Correct Use

- Point to the Remote Control sensor of the TV set.
- The maximum operable distance is approximately 23 ft from the Remote Control sensor, and no more than 30° to either side of center.
- Operation of the Remote Control is most effective when there is nothing between it and the Remote Control sensor.
- Duration of the batteries is approximately 6 months to 1 year. (Duration varies depending on frequency of use.) Replace the batteries when the remote operation becomes unstable.

Battery Installation/Notes

- Press the tab and lift up the cover in the direction of the arrow.
- Correctly install the batteries, observing (+/–) polarities as shown.
- Do not use a combination of old and new batteries or batteries of different types.
- If batteries become exhausted, remove and replace them soon.
- If Remote Control will not be used for more than 2 weeks, remove batteries.
- When battery leakage occurs, clean the battery compartment with a soft cloth and replace the batteries.





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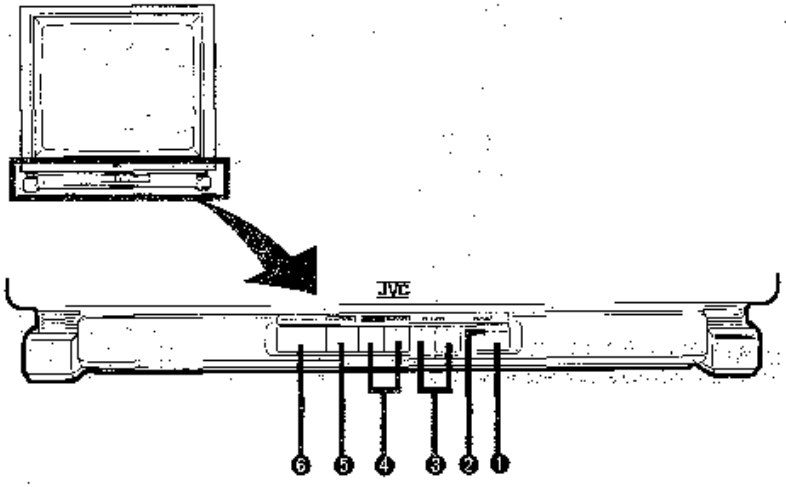
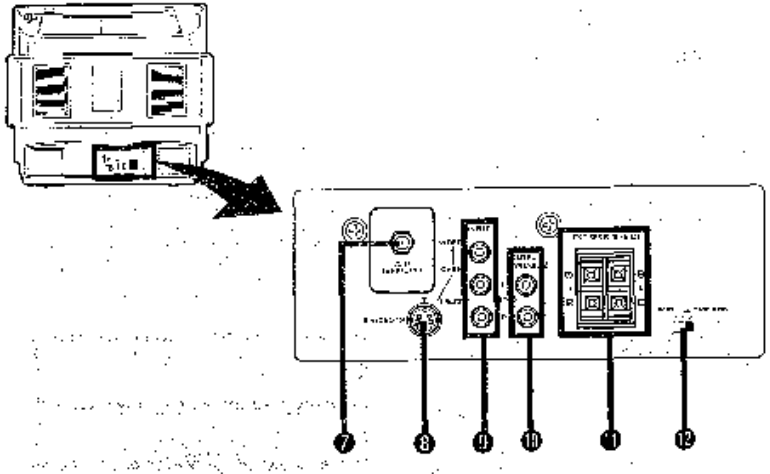
CONTROLS AND THEIR LOCATIONS

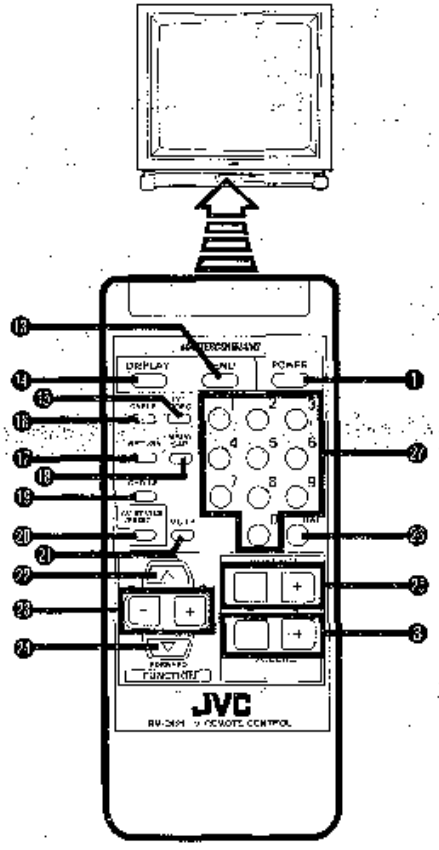
Front Panel Control Section



Rear Panel Control Section



Remote Control Section



Front Panel Control Section

1. POWER button
2. POWER/ON TIMER indicator
3. VOLUME (–/+) buttons
4. LEVEL/CHANNEL (–/+) buttons
5. FUNCTION button
6. Remote control sensor

Rear Panel Control Section

7. Antenna terminal
8. S-VIDEO IN connector
9. INPUT connectors
10. OUTPUT (VARIABLE) connectors
11. EXT SPKR terminals
12. EXT SPKR switch

Remote Control Section

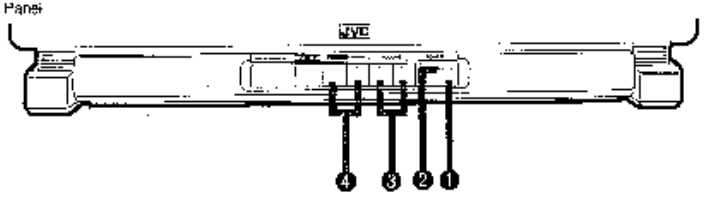
13. MENU button
14. DISPLAY button
15. TV/VIDEO button
16. ANT/CABLE button
17. RETURN button
18. MAIN/SAP button
19. RECALL CHOICE button
20. AV STATUS/RESET button
21. MUTE button
22. FUNCTION BACK button
23. FUNCTION (–/+) buttons
24. FUNCTION FORWARD button
25. CHANNEL (–/+) buttons
26. 100+ button
27. 10-digit keypad

* Buttons 1 and 3 on the Remote Control have the same functions as those of buttons 1 and 3 on the front panel control section.

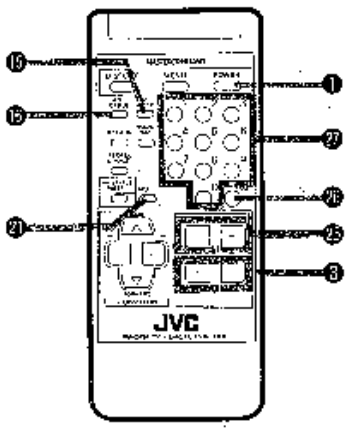
* Please refer to the above numbers on the following pages.

TV OPERATION

Front Panel



Remote Control



First Preparations

- **Connect either Antenna or Cable TV** by following "Installation" instructions on page 3.
- **Insert batteries into the Remote Control** unit by following "Remote Control Use" instructions on page 3.
- **Connect the power cord** to 120 V, 60 Hz AC outlet. The power cord is supplied with a polarized plug. Therefore, it will only insert one way into the wall outlet. DO NOT DEFEAT THE POLARIZED PLUG. If you have difficulty, consult your local dealer.

CABLE TV CHANNEL CONVERSION CHART

In addition to normal TV reception from an antenna for VHF (Channels 2 to 13) and UHF (Channels 14 to 69), your TV set is equipped to receive non-scrambled cable TV channels. Sub Mid band (A-8, A-4 to A-1), Mid band (A to I), Super band (J to W), Hyper band (W + 1 to W + 28) and Ultra band (W +29 to W + 84) can be received by using the channel selections as shown in the following chart.

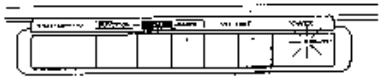
*	A-8	A-7	A-6	A-5	A-4	A-3	A-2	A-1	A	B	C	D	E	F	G	H	I	J	K	L	M	N
**	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49
*	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93
**	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
*	W+1	W+2	W+3	W+4	W+5	W+6	W+7	W+8	W+9	W+10	W+11	W+12	W+13	W+14	W+15	W+16	W+17	W+18	W+19	W+20	W+21	W+22
**	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76
*	W+50	W+51	W+52	W+53	W+54	W+55	W+56	W+57	W+58	W+59	W+60	W+61	W+62	W+63	W+64	W+65	W+66	W+67	W+68	W+69	W+70	W+71
**	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27
*	W+72	W+73	W+74	W+75	W+76	W+77	W+78	W+79	W+80	W+81	W+82	W+83	W+84									
**	120	119	118	117	116	115	114	113	112	111	110	109	108									

* : Regular cable channel designations
** : Your TV set's corresponding on-screen CABLE channel numbers

Note: Reception of channel A-5 ("95" of the TV set's on-screen CABLE channel numbers) is not recommended for your TV set.

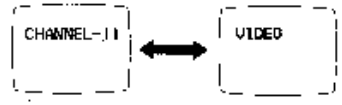
Basic Operating Procedure

1 **Press POWER button** ❶ on either the Remote Control or front panel. POWER/ON TIMER indicator ❷ lights. Press this button again to turn power off.

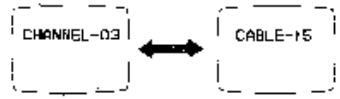


Note: If the POWER/ON TIMER indicator remains lit even after the power is turned off, it shows the ON TIMER is in operation. See "5. SET ON TIMER" on page 14 and "7. HOME SITTER" on page 16.

2 **Press TV/VIDEO button** ⓯ on the Remote Control (or the FUNCTION and LEVEL/CHANNEL (–/+) buttons on the front panel) to select the TV mode.

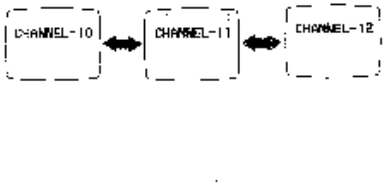


3 **Press ANT/CABLE button** ⓰ on the Remote Control to select the broadcast mode. Each time it is pressed, the mode is switched between "CHANNEL" and "CABLE". When connected to an antenna, select "CHANNEL" mode for normal VHF/UHF reception. When connected to cable TV, select "CABLE" mode. The on-screen display will show the following:



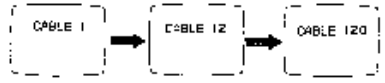
Note: For mode selection using the front panel controls, see "FUNCTION BUTTONS" on next page.

4 **Select desired channel** using CHANNEL (–/+) buttons ❾ on the Remote Control (or LEVEL/CHANNEL (–/+) buttons ❹ on the front panel). Pressing the (+) button advances to higher channels, (–) button to lower channels.



Note: Certain channels have been preset at the factory. It may be necessary to add or erase some channels in your area. See "9. INITIAL SET-UP" on page 19 for presetting channels.

- Channels can be selected directly by using 10-Digit Keypad ❽ on the Remote Control. For example, if you select channel 5, press "0" first, then press "5". (Be sure to press "0" first, before pressing "5" for channel 5.)
  For cable channels of 3-digit numbers, use 100+ button ⓭. For example, if selecting cable channel 120, press the 100+ button first, then press "2", then "0". Also refer to the CABLE TV CHANNEL CONVERSION CHART on the preceding page.



Note: When a video source such as a VCR is connected to the antenna terminal to be viewed on Channel 3 (or Channel 4), sometimes channel selection may result in an unclear or distorted picture. In this case, re-select Channel 3 (or 4) and the picture will become clear. (Also in this case, be sure to press "0" first, before pressing "3" (or "4") for Channel 3 (or Channel 4.)

5 **Press VOLUME (–/+) buttons** ❸ on either the Remote Control or front panel to adjust volume to your desired listening level. Pressing the (+) button will increase sound volume the (–) button will decrease sound volume. The volume level is indicated on the screen by reference numbers (0 – 50) and by a bar scale, as shown.

Note: The volume level can be muted instantly by pressing MUTE button ❶ on the Remote Control. See "MUTE Button" on page 21.

On-Screen Display

- Once the on-screen display appears on the screen, it disappears in a few seconds. (Only the clock time can be kept displayed on the screen. See "DISPLAY Button" on page 21.)
- When tuned to a channel where no program is being broadcast, the on-screen display may be unclear or blurred.
- On-screen displays are available in two different layouts (except for displays of the channel number and clock time). See "9. INITIAL SET-UP" on page 19 for selecting the display mode.
- Channel numbers of the "CHOICE channels" can be displayed with their station call letters. If you prefer to do so, enter the station call letters when you program the "CHOICE channels". See "1. CHOICE PROGRAMING" on page 16.

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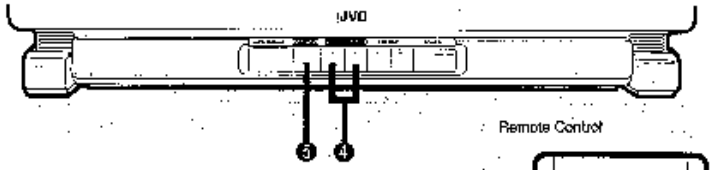
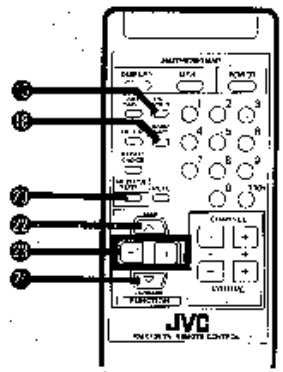
AV-27618
AV-27615

FUNCTION BUTTONS

Front Panel



Remote Control



The FUNCTION button on the front panel selects the control modes for TV operation and picture/sound adjustment.

- Press FUNCTION button ❸ on the front panel. The first time it is pressed, the following display appears on the screen.

- At this time, the top line shows the current channel number.

Press FUNCTION button ❸ to select the desired item for adjustment. Each time the FUNCTION button is pressed, the magenta-colored portion shifts in the order below to show that the colored item in the list can be adjusted.

Note: Three pages of on-screen displays are available with the FUNCTION button.

1 CHANNEL SELECT mode
↓
2 ANTENNA/CABLE SELECT mode
↓
3 TV/VIDEO SELECT mode
↓
4 MTS SELECT mode
↓
5 TINT adjustment mode
↓
6 COLOR adjustment mode
↓
7 PICTURE adjustment mode
↓
8 BRIGHT adjustment mode
↓
9 DETAIL adjustment mode
↓
10 BASS adjustment mode
↓
11 TREBLE adjustment mode
↓
12 BALANCE adjustment mode

Note: The Remote Control's FUNCTION BACK button ⓲ or FORWARD button ⓳ selects only picture and sound adjustment modes: **TINT, COLOR, PICTURE, BRIGHT, DETAIL, BASS, TREBLE and BALANCE.** The other control modes can be selected directly with the Remote Control's respective buttons. Pressing FUNCTION FORWARD button ⓳ advances the colored portion in the order as shown on the left for "picture/sound adjustment modes", pressing FUNCTION BACK button ⓲ advances in the reverse order.

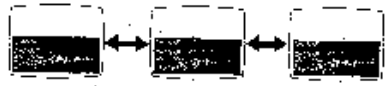
- After selecting the desired mode, press LEVEL/CHANNEL (–/+) buttons ❹ on the front panel or FUNCTION (–/+) buttons ⓬ on the Remote Control while the selected mode indication is being displayed to make your preferred adjustment. The Remote Control's FUNCTION (–/+) buttons ⓬ control **only picture and sound adjustments.**

Note:

- When using the front panel buttons, before the FUNCTION button is pressed for the first time with nothing displayed on the screen, the TV is in the "CHANNEL SELECT" mode. Therefore, in this mode, channel selection is possible by pressing LEVEL/CHANNEL (–/+) buttons ❹ on the front panel.
- After completing picture and sound adjustments from the Remote Control, selecting either FUNCTION (–) or (+) button ⓬ will return directly to the last chosen adjustment mode.

1 CHANNEL SELECT mode

In this mode, press LEVEL/CHANNEL (+) button ❹ on the front panel to scan up the channels, and press the ( ) button to scan down the channels.
(The screen illustrations below show the case when the TV is in the "CHANNEL" mode. When in the "CABLE" mode, the "CABLE" indication appears instead of "CHANNEL".)



2 ANTENNA/CABLE SELECT (broadcast) mode

In this mode, press LEVEL/CHANNEL (–/+) buttons ❹ on the front panel to change the broadcast mode between "CHANNEL" (for regular VHF/UHF channels) and "CABLE" (for cable channels).

3 TV/VIDEO SELECT mode

In this mode, press LEVEL/CHANNEL (–/+) buttons ❹ on the front panel to switch the mode between "TV" (for off air or cable TV broadcasts) and "VIDEO" (for video source which is connected to the TV set's VIDEO/AUDIO INPUT connectors or S-VIDEO IN connector). See "CONNECTING TO EXTERNAL EQUIPMENT" on page 22.

Note: Mode selection can be performed with TV/VIDEO button ⓭ on the Remote Control.

4 MTS SELECT mode

Your TV set incorporates an MTS (Multichannel Television Sound) decoder to receive stereo broadcasts and any accompanying SAP (Second Audio Program), such as a bilingual broadcast.
Available sound will be:
(1) Monaural (MAIN) audio program (regular broadcasts)
(2) STEREO (MAIN) audio program
(3) Second Audio Program (SAP)
In this mode, the "← ON AIR" shows that the MTS mode is now being broadcast. Press LEVEL/CHANNEL (–/+)buttons ❹ to change the reception mode among "STEREO", "SAP" and "MONO".
Each time it is pressed, the color of the indication changes from blue to magenta to show that the mode has just been switched.

Notes:

- Mode selection can be performed with MAIN/SAP button ⓯. Each time it is pressed, the mode changes in the order of "STEREO" → "SAP" → "MONO" → "STEREO".
- If the TV set is kept always set to the stereo mode, when a stereo broadcast is received, stereo sound is output automatically.
- If the received stereo signal is weak, noise may be heard. In such a case, press LEVEL/CHANNEL (–/+) buttons ❹ (or MAIN/SAP button ⓯) to engage the MONO mode for better sound reception.
- If the received SAP signal is weak, the SAP will not be heard. Select the MONO mode for better sound reception.
- Even if both stereo and SAP broadcasts are received, both broadcasts cannot be heard at a time.

When using the TV set for cable reception

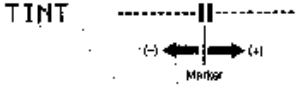
Transmission of Cable TV signals may differ from off air TV broadcasts. It is possible that the multichannel TV sound (MTS) may not be received satisfactorily.

5 – 12 Picture/sound adjustment modes

In these modes, an adjustment scale with a marker appears on the screen. Press LEVEL/CHANNEL (–/+) buttons ❹ on the front panel or FUNCTION (–/+) buttons ⓬ on the Remote Control to fine adjust each item to your preference according to the chart below. (The center position is only a reference level, rather than a standard setting.)

(–)	Item	(+)
Reddish	TINT	Greenish
Subdued	COLOR	Vivid
Light	PICTURE	Strong
Dark	BRIGHT	Bright
Soft	DETAIL	Sharp
Soft	BASS	Strong
Soft	TREBLE	Strong
Left	BALANCE	Right

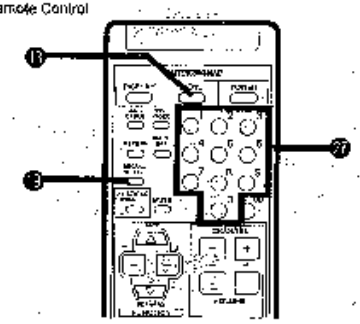
Note: When you wish to restore all adjustment modes to their scales' center positions, use AV STATUS/RESET button ⓮. For details, see "AV STATUS/RESET Button" on page 13.



MENU BUTTON

Front Panel

Remote Control



The "MENU" button selects a list of functions that can be programmed for operating the TV more conveniently. This function is possible only on the Remote Control.

- Press MENU button ⑱ on the Remote Control to display the list of programmable convenience functions on the screen. The "MENU" consists of 3 pages. Press the MENU button repeatedly to display the pages in the sequence below.
- Press number "1" through "9" on 10-Digit Keypad ⑯ to select the corresponding function in the numbered "MENU".

PAGE-1

1. CHOICE PROGRAMING

This function enables storing up to 5 frequently viewed channels as "CHOICE channels", allowing immediate, direct access to the channel of your choice using RECALL CHOICE button ⑰.

1) While in the channel select mode (either "CHANNEL" or "CABLE" mode), determine the channel you wish to preset as a CHOICE channel and display it on the screen.
(For example, press "0" and "9" to display "CHANNEL 09").

2) With "PAGE-1" MENU displayed on the screen, press "1" of 10-Digit Keypad ⑯.
The display will show:

3) Press a number (1 – 5) on 10 Digit Keypad ⑯ for the CHOICE channel number you wish to preset. Then, the following display will appear.
(For example, press "1" for storing "CHANNEL 09" as the "CHOICE 1" channel.)

4) With this display, you can store the TV station's call letters for handy reference along with its channel number. (Up to 4 letters can be stored.) If you choose to store the call letters, press "1". The following display will appear.

- If you choose not to store call letters, press "2" of the 10-Digit Keypad. The CHOICE LIST will appear to show that the CHOICE PROGRAMING mode has been disengaged.

5) Press the FUNCTION FORWARD/BACK buttons for selecting each of the call letters to be stored. Available characters include the alphanumeric characters (26 English-language letters and 10 numerals), plus various punctuation marks (period, comma, etc.). Then, move the cursor to the next letter position by pressing the FUNCTION (→/+) buttons on the Remote Control. When finished selecting up to 4 call letters, press "1".
(For example, if you store the letters "JVC", keep the FUNCTION FORWARD or BACK button pressed until the letter "J" appears. Then, press the FUNCTION (+) button to move the cursor one letter position to the right. Press FUNCTION FORWARD or BACK to select the letter "V", then move the cursor to the right again with FUNCTION (+). In the same way, select "C", then press "1" to end the operation.)
The CHOICE LIST is displayed for a few seconds.

6) Repeat steps 1) through 5) to preset up to 5 CHOICE channels.

RECALL CHOICE Button

- Simply press RECALL CHOICE button ⑰ anytime you want to call up the list of preset CHOICE channels for convenient direct CHOICE channel selection.
While the list is on the screen, press the corresponding number of 10-Digit Keypad ⑯ (1 – 5) to select the preferred channel.

2. CHANNEL SCAN

This feature allows automatic scanning, in ascending order, of the channels which have been stored following the procedures of "3. INITIAL SET-UP" (described on page 19).

1) With "PAGE-1" MENU displayed on the screen, press "2" of 10-Digit Keypad ⑯.
- All memorized channels (either "CHANNEL" or "CABLE" mode) will now be scanned sequentially in ascending order beginning with the channel that the TV is tuned to. Scanning will stop automatically when the original channel is reached. "SCAN STOP" appears to show the CHANNEL SCAN mode has finished.

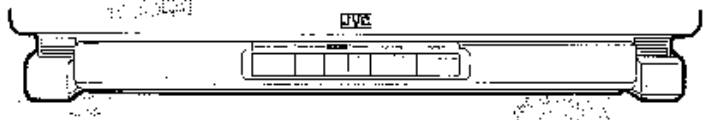
2) Press any button on the Remote Control, if you wish to stop scanning at a certain channel before the original channel is reached.
To resume scanning, press MENU button ⑱ and then "2" of 10-Digit Keypad ⑯.

Notes:
- When the TV is in the "CABLE" mode, the "CABLE" indication appears on the screen instead of "CHANNEL".
- For changing memorized channels, see "3. INITIAL SET-UP".
- If you wish to start CHANNEL SCAN at a specific channel, first select the broadcast mode (CHANNEL or CABLE) then that channel number, and then follow instructions on the left.
- While actual CHANNEL SCAN is being performed, all front panel buttons become inoperable.

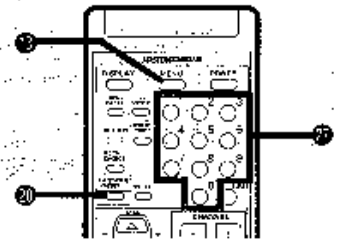
(No.50530) 9

AV-2761S
AV-2761S

Front Panel



Remote Control

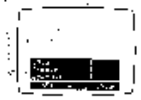


3. SET-UP AV STATUS

Your TV set incorporates the AV STATUS memory that can store 2 variations for preset picture/sound adjustments, allowing you to change the picture/sound tone/speaker balance to your preference, depending on each source.

1) With "PAGE-1" MENU displayed on the screen, press "3" of 10-Digit Keypad ⑰. The display will show:

2) Make picture adjustments to your preference. Use the FUNCTION BACK/FORWARD buttons to select the item, and use the FUNCTION (–/+) buttons to adjust each item. If you also wish to make sound adjustments, press "1" to advance the adjustment mode display. The following display will appear. (Press "1" again to return to the picture adjustment display.)



3) Make sound adjustments to your preference. Use the FUNCTION BACK/FORWARD buttons to select the item, and use the FUNCTION (–/+) buttons to adjust each item. When finished, press "3". The following display will appear.

4) Press "1" to store the setting as the "AV STATUS A". (Press "2" to store it as the "AV STATUS B".) Then the picture and sound adjustment settings (items and their reference scales) appear for a few seconds each.

5) Repeat steps 1) through 4) for making another AV STATUS setting.

Note: When you wish to choose the preset AV STATUS, just press the AV STATUS/RESET button ⑯ to choose either set of AV STATUS adjustments. For details, see "AV STATUS/RESET button" on the next page.

AV STATUS/RESET button

Use this button for choosing the preset AV STATUS or for resetting the picture/sound adjustment items.
Press AV STATUS/RESET button ⑯ on the Remote Control. The following display appears.

- Another pressing of the AV STATUS/RESET button resets all previously adjusted items to their center positions.

1. AV STATUS A

Press "1" or 10-Digit Keypad ⑰ for selecting AV STATUS A. The picture and sound change as preset for "AV STATUS A". Then the picture and sound adjustment settings (items and their reference scales) appear for a few seconds each.

2. AV STATUS B

Press "2" for selecting AV STATUS B. The picture and sound change as preset for "AV STATUS B". Then the picture and sound adjustment settings (items and their reference scales) appear for a few seconds each.

3. RESET

Press "3" when you wish to reset all adjusted items (TINT, COLOR, PICTURE, BRIGHT, DETAIL, BASS, TREBLE and BALANCE) back to their center positions at the same time. The on-screen displays appear and change as follows.

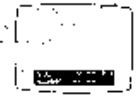
Notes: While in this mode, the setting of the AV STATUS cannot be canceled.

PAGE-2

4. SLEEP TIMER

The "SLEEP TIMER" feature allows you to turn off your TV automatically at a preset time.

1) With "PAGE-2" (or "PAGE-1" or "PAGE-3") MENU displayed on the screen, press "4" of 10-Digit Keypad ⑰. The display will show:



- If the built-in clock has not been set to operate properly, the SLEEP TIMER will not function. In this case, the following display will appear on the screen to show that the clock requires adjustment.

Press "1" (YES) of the 10-Digit Keypad to adjust the clock. (If "2" (NO) is pressed, the warning message "YOU CANNOT OPERATE SLEEP TIMER!!!" is displayed.)
Set the built-in clock. (See "6 SET CLOCK" on page 15 for details.) When the clock is adjusted, the message "THANK YOU!!" appears. Then, the following display appears to show that the SLEEP TIMER is now ready to be set.

2) Press the numbers on the 10-Digit Keypad to set the desired switch-off time. The SLEEP TIMER can be set for up to 11 hours 59 minutes from the current time.
For example, if it is now 7:00 PM, and you want the TV to switch off automatically at 9:00 PM, press "9", "0" and "0". (The "AM-PM" setting is done automatically.) The selected time of "9:00 PM" appears.

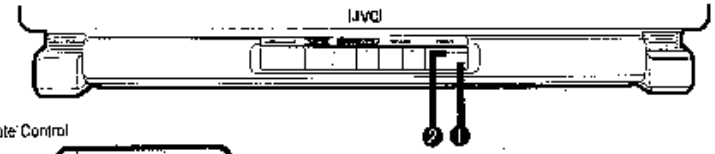
- When you select "1" for hour setting (for example, "1:05 AM"), remember to press "0" first, then press "1", "0" and "5".

3) To cancel the SLEEP TIMER setting, key in the current time (the current time setting of the TV's built-in clock).

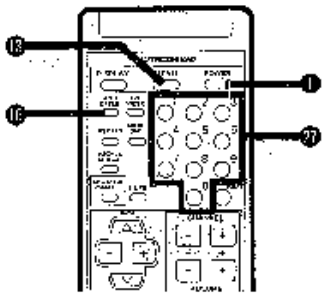
Notes:

- If an invalid time is selected (for example: "5:87"), it will be rejected and the SLEEP TIMER must be reset properly.
- While the SLEEP TIMER is activated, if the POWER button is pressed to turn the power off and on again, the SLEEP TIMER will be canceled.
- While the SLEEP TIMER is activated, if the power is disconnected (such as in the case of power failure, etc.) and reapplied later, the TV is turned off. When disconnected only for a couple of minutes, the SLEEP TIMER is reactivated; however, it turns the TV off later than the set time by the amount of time of interruption.
- The SLEEP TIMER may turn off the TV a little earlier than the preset time.
- When the remaining time reaches 1 minute, the message, "GOOD NIGHT", will be displayed and continue to blink until the power turns off automatically.

Front Panel



Remote Control



5. SET ON TIMER

The "ON TIMER" feature allows you to turn on your TV automatically at a preset time and on a specific channel. The ON TIMER is available for 2 different settings.

With "PAGE-2" (or "PAGE-1" or "PAGE-3") MENU displayed on the screen, press "5" of 10-Digit Keypad ⑰. The display will show:

- At this time, if the display of "POWER INTERRUPTED/ WOULD YOU SET CLOCK FIRST?" (which may appear during the SLEEP TIMER procedure) appears, it shows that the clock is not operating, and the ON TIMER will not function.
  Press "1" (YES) to set the clock. (If "2" (NO) is pressed, the warning message "YOU CANNOT OPERATE ON TIMER!!" is displayed.)
  Set the clock. See "6 SET CLOCK" on page 15 for details regarding clock setting. After the clock has been set, the message "THANK YOU!" appears to show that the clock has just been adjusted and the ON TIMER is now ready to be set.

Two different settings are possible. Press "1" or "2" to select the setting position. The display will show:

- The second from the bottom line shows the preset time if already previously set.

1) SET
Press "1" to start the ON TIMER for turning the TV on automatically at the preset time shown. "<YES>" appears to show that the ON TIMER has started.

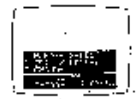
2) CANCEL
Press "2" to cancel the setting. "<NO>" appears to show that the ON TIMER has been cancelled.

3) CHANGE
Press "3" to re-adjust the setting. Then, the following display appears.

Press the numbers on the 10-Digit Keypad to set the desired switch-on time. For example, if you want the TV to switch on automatically for CHANNEL 12 at 7:00 AM, press "7", "0" and "0". (When you select "1" for hour setting, remember to press "0" first, then press "1".) The selected time of "7:00" appears and immediately the display changes to:

Then, press "1" to select the "AM" setting. (Press "2" to select the "PM" setting.) Then, the following display appears. Press "1" and "2" for specifying "CHANNEL 12".

Now the following display appears on the screen to show the ON TIMER is set to "7:00 AM, CHANNEL 12" with the "<YES>" indicating the ON TIMER has started. Finally, press POWER button ❶ to turn the power off. POWER/ON TIMER indicator ❷ remains lit to show that the ON TIMER is in operation.



Notes:
- If an invalid time is selected (for example: "17:70"), it will be rejected and the ON TIMER must be reset properly.
- First select the broadcast mode (CHANNEL or CABLE) of the channel you wish to set for the ON TIMER with ANT/CABLE button ⑱ on the Remote Control before entering the ON TIMER mode, since broadcast mode switching while in the ON TIMER will cancel the mode.
- After the ON TIMER has been properly set, it functions only once for each setting (up to 2 settings are possible) to turn on the TV's power. (It does not operate repeatedly every day at the same time as a serial timer.)
- Once the ON TIMER turns the TV on automatically, if the TV is not operated in any way, after 2 hours the TV will turn off automatically for safety. A single adjustment, even audio level adjustment or channel selection, will cancel this switch-off function.
- While the ON TIMER is activated, if the power is disconnected (such as in the case of power failure, etc.) and reapplied later, the ON TIMER is cancelled. When disconnected only for a couple of minutes, the ON TIMER is reactivated; however, it turns the TV on later than the set time by the amount of time of interruption.
- If the channel which has already been set as a "Guarded Channel" is selected, that channel is rejected and cannot be set for the ON TIMER. (For details of the Guarded Channels, refer to page 17.)

6. SET CLOCK

Your TV has a built-in clock. Set the clock as follows.

1) With "PAGE-2" (or "PAGE-1" or "PAGE-3") MENU displayed on the screen, press "6" of 10-Digit Keypad ⑰. The display will show:

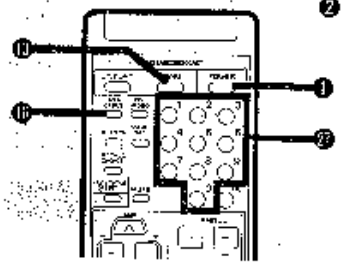
2) Then, press the numbers on the 10-Digit Keypad to set the current time. For example, if the present time is 7:35 PM, press "0", "7", "3" and "5" (or press "7", "3" and "5"). Then, the display changes to:

3) Press "2" to select the "PM" setting. (Press "1" to select the "AM" setting.) Then, the display changes to the following to show the current time is set and the clock starts operating.

Notes:
- If an invalid time is selected (for example: "17:70"), it will be rejected and the built-in clock must be reset properly.
- If you wish to set the clock precisely, in step 3) above, press "2" (or "1") at the same instant of a time signal.
- The built-in clock may loose time depending on the manner in which the TV is used or the frequency of the power source. If the time difference becomes great, re-adjust the clock.
- If the power is disconnected (such as in the case of a power failure, etc.), and reapplied later, the clock will stop operating. (The clock status can be checked on screen. Press the DISPLAY button. If the clock has stopped, the message "CLOCK STOPPED" is displayed instead of the current time. See "DISPLAY Button" on page 21 for details.) When disconnected only for a couple of minutes, the clock is reactivated; however, it will be later than the actual time by the amount of time of interruption.

Front Panel

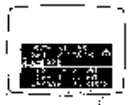
Remote Control



PAGE-3

7. HOME SITTER

The "HOME SITTER" feature enables the TV to be turned on and off automatically at preset times every day.
With "PAGE-3" (or "PAGE-1" or "PAGE-2") MENU displayed on the screen, press "7" of 10-Digit Keypad ⓰. The display will show:

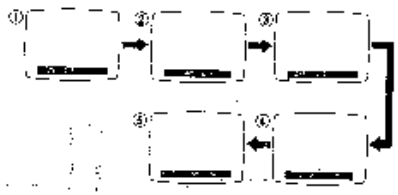


- At this time, if the display of "POWER INTERRUPTED! WOULD YOU SET CLOCK FIRST?" appears, it shows that the clock is not operating, and the HOME SITTER will not function.
  Press "1" (YES) to set the clock. (If "2" (NO) is pressed, the message "YOU CANNOT OPERATE HOME SITTER!!" is displayed.)
  Set the clock. See "6. SET CLOCK" on the previous page for details regarding clock setting. After setting the clock, the message "THANK YOU" appears to show that the clock has just been adjusted and the HOME SITTER is now ready to be set.

1) SET
Press "1" to place the HOME SITTER in standby. The ON/OFF time and channel number which have been previously set will be displayed. When POWER switch ❶ is pressed to turn the TV off, POWER/ON TIMER indicator ❷ lights and "YES" appears on the screen to show that the HOME SITTER is in operation.

2) CANCEL
Press "2" to cancel the HOME SITTER. "NO" appears to show that the HOME SITTER has been cancelled.

3) CHANGE
Press "3" to re-adjust the HOME SITTER setting. Follow the on-screen displays to set the switch-on time, switch-off time and channel number, using the 10-Digit Keypad.



① Set the switch-on time.
② Select "AM" or "PM".
③ Set the switch-off time.
④ Select "AM" or "PM".
⑤ Set the channel number.

When the channel number is set, the display will show:

- This display shows that the HOME SITTER is set to switch the TV on at 6:20 PM, switch it off at 11:00 PM and the channel to be received is "CABLE 15".

Notes:
- If an invalid time or channel number is selected, it will be rejected and it must be reset properly.
- First select the broadcast mode (CHANNEL or CABLE) of the channel you wish to set for the HOME SITTER with ANT/CABLE button ⓭ on the Remote Control before entering the HOME SITTER mode, since broadcast mode switching while in the HOME SITTER will cancel the mode.
- If you wish to reset the switch-on time only, stop keying in data (waiting until the on-screen display disappears) after keying in the AM/PM setting, or press keys other than 10-Digit Keypad. And, if you wish to reset the switch-on and switch-off time only, the procedure is the same.
- The function that automatically turns the TV off for the ON TIMER, if no TV operation is performed after 2 hours, does not operate for the HOME SITTER.
- If the power is disconnected (such as in a power failure, etc.), and reapplied later, the HOME SITTER will be cancelled. When disconnected only for a couple of minutes, the HOME SITTER is reactivated; however, it turns the TV on and off later than the set time by the amount of time of interruption.
- If the channel which has already been set as a "Guarded Channel" is selected, that channel is rejected and cannot be set for the HOME SITTER. (For details of the Guarded Channels, see below.)

8. CHANNEL GUARD

The "CHANNEL GUARD" feature allows you to assign an "ID number" to specific channels of your choice, making them "Guarded Channels". This prevents those specific channels from being selected, unless the "ID number" is keyed in.

First select a channel you wish to set as a Guarded Channel. With "PAGE-3" (or "PAGE-1" or "PAGE-2") MENU displayed on the screen, press "8" of 10 Digit keypad ⓰. The display will show:

Then, press "1". The display changes to:

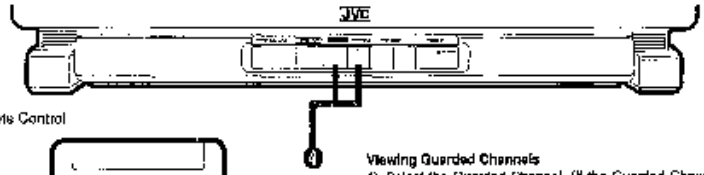
- Channel number displayed are the Guarded Channels, if already previously set.

1) SET
Press "1". The display changes to:

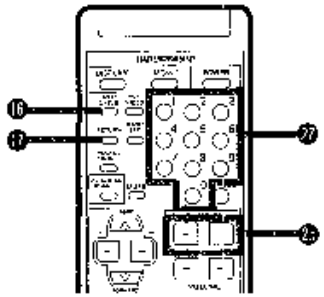
For example, if the current channel being received is "CHANNEL 25", and you wish to store this channel as Guarded Channel 1, then press "1". The display changes to show that CHANNEL 25 is now set as Guarded Channel 1.

Continued on next page ➔

Front Panel



Remote Control



2) CANCEL

Press "2" to cancel the Guarded Channel. The display will show:

With this display on the screen, press the number of the Guarded Channel you wish to cancel from the list. For example, if you wish to cancel CHANNEL 25 (in this case, Guarded Channel 1) from the list, press "1". Then the display changes to show that CHANNEL 25 (Guarded Channel 1) has been cancelled.

3) SET ID NO.

Press "3" to set the ID number. The display will show:

Press any 3 digits you wish to be the ID number. When completed, "ENTERED" appears to show that the ID number you have just keyed in is set.

Viewing Guarded Channels

1) Select the Guarded Channel. (If the Guarded Channel you wish to view is CHANNEL 25, press "2" and "5".) Then, the following display appears:

2) Key in the ID number using the 10-Digit Keypad. The channel appears.

3) If the keyed in ID number is incorrect, the display shows:

And the Guarded Channel you have selected cannot be seen.

Notes:

- If you wish to change the ID number, follow the steps of "3) SET ID NO.".
- If the power is disconnected (such as in the case of power failure, etc.), and reapplied later, the ID number is reset to "000".
- When performing the CHANNEL SCAN function, or selecting channels using CHANNEL (+/-) buttons ⑱, the Guarded Channels are skipped.
- In the following cases, the Guarded Channel can be seen without keying in the ID number:
  - When you press RETURN button ⑯ from a channel which has been selected immediately after viewing a Guarded Channel.
  - When you press ANT/CABLE button ⑰ from a channel of a different broadcast mode (CHANNEL or CABLE) which has been selected immediately after viewing a Guarded Channel.
  - When you press CHANNEL (+/-) buttons ⑱ on the Remote Control or LEVEL/CHANNEL (+/-) buttons ❶ on the front panel, while in the MANUAL PROGRAM mode of the INITIAL SET-UP (on MENU PAGE-5). If the selected channel which has already been ADDed happens to also be a Guarded Channel.
  - When you press "4" (CHANNEL UP) or "5" (CHANNEL DOWN) of the 10-Digit Keypad while in the MANUAL PROGRAM mode of the INITIAL SET UP, if the Guarded Channel happens to also be the next higher or lower channel following the one to which you are presently tuned.
  - While in the AUTO PROGRAM mode of the INITIAL SET-UP, if the AUTO PROGRAM is interrupted immediately when a Guarded Channel appears.
  - When the channel which has already been set for the ON TIMER or HOME SITTER is set as a Guarded Channel.
- If you forget the ID number which you have set, reset it.

9. INITIAL SET-UP

The INITIAL SET-UP feature allows you to perform basic settings for the TV status. This consists of Channel Memory (Auto/Manual), Message Style and Noise Mute.

Note: When performing Channel Memory (MANUAL PROGRAM), select an appropriate broadcast mode (either "CHANNEL" or "CABLE") before you select the INITIAL SET-UP mode.

With PAGE-3 (or PAGE-1 or PAGE-2) MENU displayed on the screen, press "9" of 10-Digit Keypad ⓫. The display will show:

Press appropriate 10 digit key to select the item.

1) AUTO PROGRAM

This function allows memorizing the channels automatically to match the TV broadcasts and cable channels of your area. The memorized channels can be selected by CHANNEL (+/-) buttons ⓲ on the Remote Control or LEVEL/CHANNEL (+/-) buttons ❶ on the front panel, or in the CHANNEL SCAN mode, while skipping channels where there are no broadcasts.

Press "1" of the 10-Digit Keypad. The following display will appear and the program set-up procedure begins automatically.

When tuned to a channel in which a TV program is broadcast, the following display appears and the channel is memorized.

When the AUTO PROGRAM procedure (scanning and memorizing) is completed, it will be indicated by the following display.

Notes:

- If the broadcast signals are weak, the channel may not be memorized. In this case, perform the MANUAL PROGRAM procedure.
- The AUTO PROGRAM procedure takes approximately 4 minutes. If you wish to stop this procedure before completion, press any button on the remote control.

2) MANUAL PROGRAM

Similar to the AUTO PROGRAM function on the left, this is for memorizing channels, but it is performed manually. The resulting Manual Programing is also effective when performing up/down channel selection or CHANNEL SCAN.

Press "2". The display will show:

The current tuned-in channel

Simply follow the on-screen instructions.

Note: First select the broadcast mode before entering this MANUAL PROGRAM mode.

1) Press "1" (ADD) to add this channel in memory. A bar "–" will appear between the broadcast mode (CHANNEL or CABLE) and the channel number to show that the channel has been memorized.
2) Press "2" (ERASE) to erase this channel from memory. If you do not wish to preset it in memory or if no TV station is broadcasting on it, the bar between the broadcast mode and channel number will disappear.
3) Press "4" (CHANNEL UP) or "5" (CHANNEL DOWN) to select the next higher or lower channel.
4) Press "3" (END) when you have stored all required channels in memory.
5) When you wish to store channels of the other broadcast mode, select the mode first, then repeat steps 1) through 4).
   - In step 3) above, if selecting channels is difficult, press the CHANNEL (+/-) buttons on the Remote Control.
   - Be sure to perform these operations using the Remote Control.

Continued on next page ⇨

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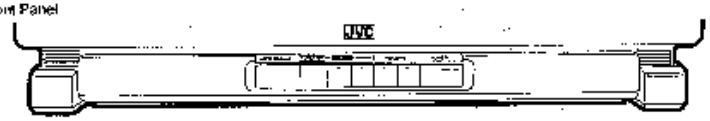
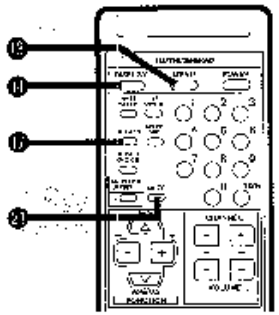
Front Panel



Remote Control



3) MESSAGE STYLE

This function is for switching the black background of the on-screen display on and off (except for channel numbers and clock time.) Press "3". The display will show:

Press "1" to select the on-screen display mode with a black background.

(VOLUME indication)

Press "2" to select the on-screen display mode without a black background.

(VOLUME indication)

4) NOISE MUTE

The NOISE MUTE feature allows replacing the "snowy" screen of vacant non-broadcast channels with a blue-blank screen; and, at the same time, muting the noisy sound.

Press "4". The display will show:

Press "1" to select the Noise Mute mode for a blue-blank screen with no sound.

Press "2" to release the mode. Screen is normal (without blue-blank screen) and sound can be heard.

Note: The Noise Mute mode can be activated only when either no signal is being input or when a weak signal is being received.

- If you wish to view a TV program having a weak broadcast signal, release the Noise Mute mode to prevent it from being activated.
- If you use an antenna system, before adjusting it (extending, rotating, etc.), release the Noise Mute mode to prevent it from being activated when the signal condition changes.
- When playing back VCR recordings or the like, picture and sound muting conditions might continue to occur for a few seconds after engaging the Play mode. Release the Noise Mute mode when necessary.
- When the Noise Mute mode is engaged, it is also applied to the output signals from the OUTPUT (VARIABLE) connectors. Release the Noise Mute mode to prevent it from having effect when connecting external components to the TV.

MASTER COMMAND SELF-DEMONSTRATION FEATURE

Your TV has a self-demonstration feature for the incorporated MASTER COMMAND system, demonstrating automatically all major functions of the MASTER COMMAND.

With PAGE-1 (or PAGE-2 or PAGE-3) MENU displayed, press "0" twice of the 10-Digit Keypad ("0 0"), or press the FUNCTION and VOLUME (–) buttons on the front panel simultaneously. The demonstration automatically begins in the following order. If you wish to stop the demonstration anytime while it is running, press any key on the Remote Control or on the front panel.

Demonstration procedure

SET CLOCK*
↓
Picture adjustment ←
↓
RESET (picture adjustment)
↓
CHOICE PROGRAMING
↓
SET-UP AV STATUS
↓
SLEEP TIMER
↓
SET ON TIMER
↓
HOME SITTER
↓
CHANNEL GUARD
↓
MESSAGE STYLE

* The SET CLOCK mode can operate only when the built-in clock is stopped.

Note: Operating this function adjusts the clock, timer settings, and all other functions to specific demonstration settings. Therefore, re-adjustment of these settings is required once the demonstration has been executed.

MORE USEFUL FUNCTIONS

RETURN Button

Press RETURN button ⓭ on the Remote Control.
The previously viewed channel will appear on the screen.
Press RETURN again to switch back to the original channel.
Repeatedly pressing RETURN switches between these two channels.

MUTE Button

Press MUTE button ⓯ on the Remote Control.
The sound of the TV program being viewed will be reduced to zero and "VOLUME 0" will appear on the screen.
Press again to restore the sound.
Note: Changing the audio volume or channel number also restores the sound.

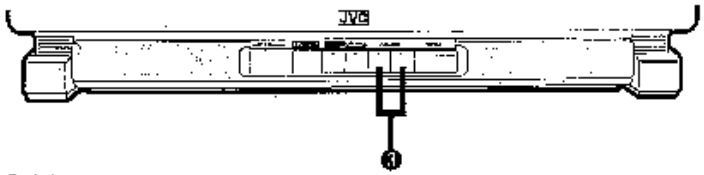
DISPLAY Button

Press DISPLAY button ⓫ on the Remote Control. The channel number of the program you are now viewing, the SLEEP TIMER/ON TIMER settings, HOME SITTER settings, and the current time are displayed in the order as shown below by each pressing of the DISPLAY button. The current time remains displayed on the screen until the DISPLAY button is pressed again.

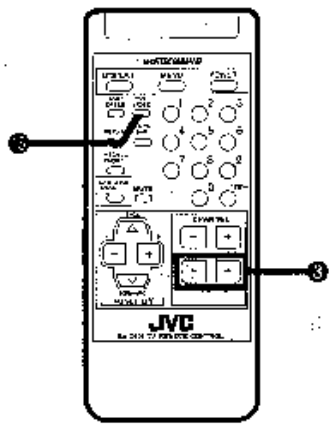
Note: If the SLEEP TIMER and/or ON TIMER and/or HOME SITTER is cancelled, their settings will not be displayed.

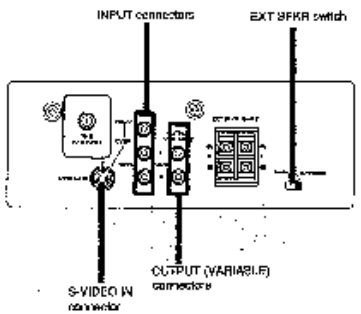
CONNECTING TO EXTERNAL EQUIPMENT

Front Panel



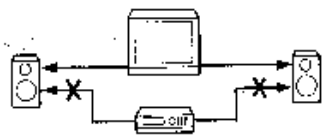
Remote Control





- Prior to making any connections to your TV set, be sure to turn the POWER off.
- For a more detailed understanding of each connection, it is recommended that you read the instruction manual for each connected component.
- If you use video or audio equipment placed too near the Monitor/Receiver, picture and/or sound may become distorted due to interference between these components. In such a case, separate each piece of equipment at a sufficient distance.
- The following shows examples for connecting external equipment.

- Do not connect another audio source to the same speaker to which the TV set is connected, otherwise damage may result to the amplifier of the TV set or to that of the other audio source.

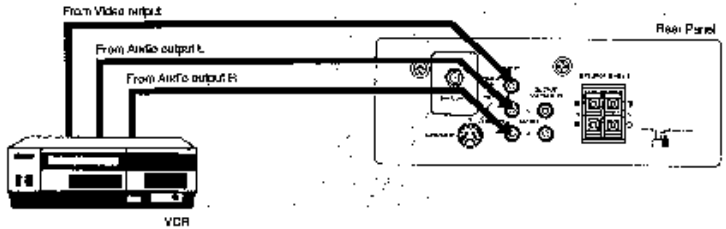


1 INPUT connectors

- To view a connected video source, press TV/VIDEO button ❽ on the Remote Control to engage the VIDEO mode.

Notes:

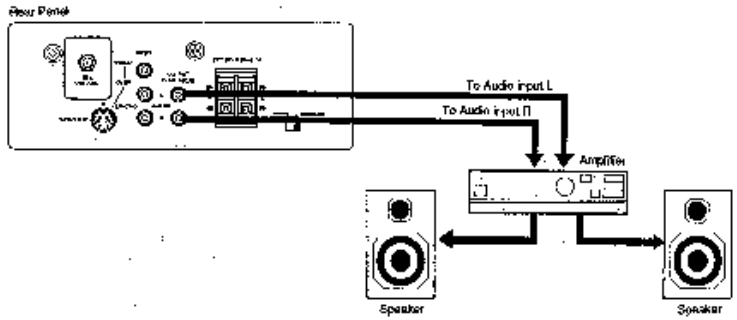
- If the connected video equipment outputs monaural audio, connect to the L/MONO (left-channel) connector of the INPUT connectors. Sound will be output from both right and left speakers.
- When the S-VIDEO IN connector is used, the VIDEO connector function of the INPUT connectors becomes inoperable.



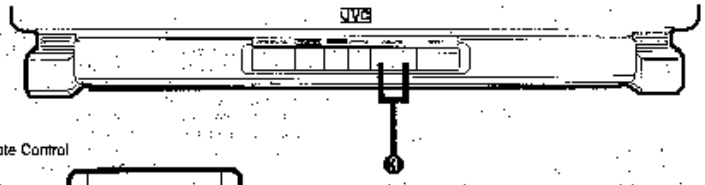
2 OUTPUT (VARIABLE) connectors

- The audio signals available at these connectors are the same as the audio source of the program being monitored on the TV screen.

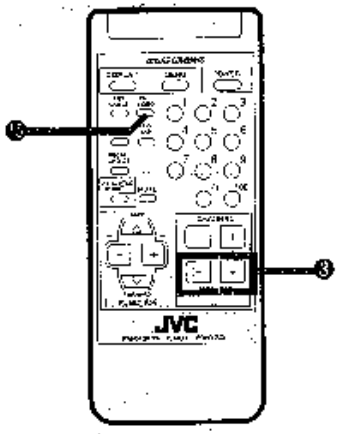
- Connect a stereo amplifier to these connectors to listen to the sound through external speakers connected to the amp. The audio output level can be adjusted via VOLUME (–/+) buttons ❽ on either the Remote Control or front panel.
- If the sound which is output from the TV's built-in speaker is noisy, set EXT SPKR switch ❾ to MAIN to turn off the sound from the built in speakers.

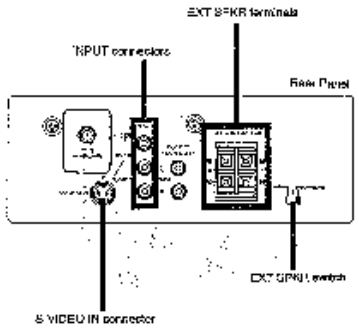


Front Panel



Remote Control

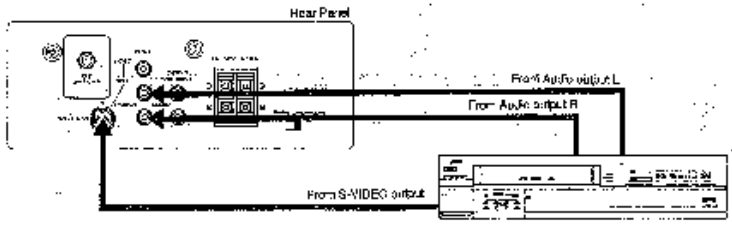




3 S-VIDEO IN connector

- S-VIDEO IN connector is for the separated Y (luminance) and C (chrominance) video signals conforming to the NTSC system. Ideal for connection of an S-VHS (Super VHS) VCR.
- Connect the audio output cables to the INPUT connectors.
- Press TV/VIDEO button ⑱ on the Remote Control to engage the VIDEO mode to view pictures from the S-VHS VCR.

Note: When equipment is connected to this connector, the VIDEO connector function of the INPUT connectors becomes inoperable.



4 Using external speakers

- Connect speaker cables while making sure that the wiring of speaker's polarities is correct.
- Set EXT SPKR switch ⑰ to MAIN. The sound from the TV's built-in speakers is turned off, and the sound will be heard only from the speakers which are connected to EXT SPKR terminals ⑯.
(For "SURROUND 1" and "SURROUND 2" of EXT SPKR switch ⑰, refer to "5 Listening to surround sound" on page 25.)

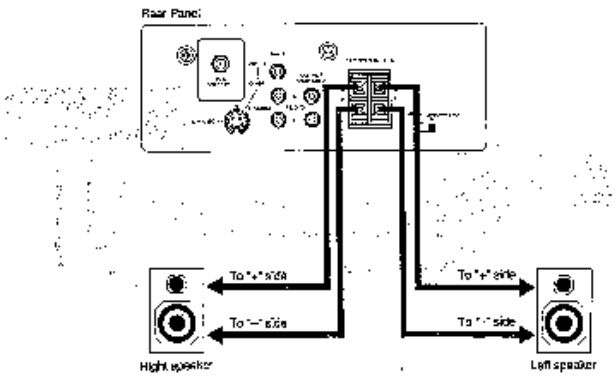
<Setting the EXT SPKR switch>

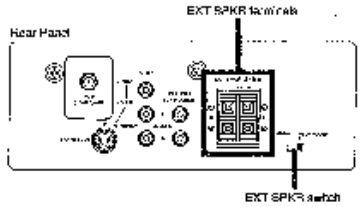
The output sound differs depending on the switch setting.

Switch setting	Sound output	
	Built-in speakers	Speakers connected to the EXT SPKR terminals
MAIN	No sound	Normal sound
SURROUND 1	No sound	Surround effect sounds
SURROUND 2	Normal sound	Surround effect sounds

- Surround effect sound will be output when the sound source is stereo. No sound will be output when the sound source is monaural.

Notes:
- Use speakers of 8- to 8-ohm impedance.
- If the "+" and "–" terminals are short-circuited, it may cause damage to the TV set.
- It is recommended to use magnetically shielded speakers. If you use speakers other than these, place them at a sufficient distance from the TV set, otherwise the magnetic field generated from such speakers cause unstable picture color.
- Do not connect another audio source to the same speaker to which the TV set is connected, otherwise damage may result to the amplifier of the TV set or to that of the other audio source.





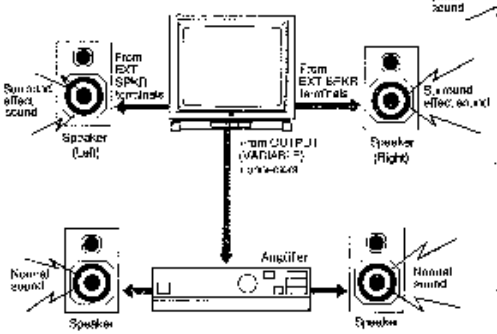
5 Listening to surround sound

"Surround sound" is a sound reproduction process resulting in a three-dimensional aural experience that is a combination of "surround effect sound" and "normal sound", delivered from both of left and right channels at the same time.

- The surround effect sound is possible only when the sound source being listened to is stereo. (In the case of monaural sound source, no sound from the speakers connected to the external speaker terminals will be output. Therefore, listening to surround sound is impossible.)
- Set the marker of the scale of the BALANCE adjustment mode to its center position using the FUNCTION button(s) and/or the AV STATUS/RESET button. See page 13.

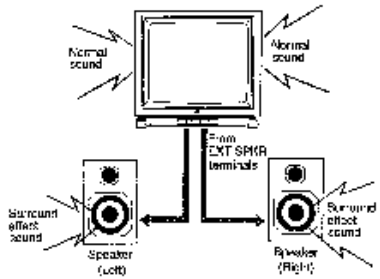
(A) When using an external stereo component system

(1) Connect each component as illustrated.
(2) Set EXT SPKR switch ⓯ to SURROUND 1.



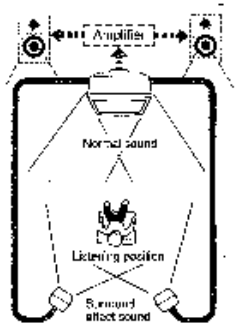
(B) When connecting speakers to the EXT SPKR terminals

(1) Connect speakers to the EXT SPKR terminals.
(2) Set EXT SPKR switch ⓯ to SURROUND 2.



<Speaker positioning>

As shown below, position the speakers so that the normal sound can be heard in front and the surround effect sound can be heard in back of the listening position.



BEFORE YOU CALL FOR SERVICE

Be sure to review all the instructions written in this booklet. Then try to check according to the following chart.

PROBLEMS \ TRY THIS	Is the power cord plugged in?	Check the AC outlet.	Check antenna (connections and aiming)	Try another channel.	If OK, station broadcast problem.	Move antenna in different direction.	Is it a black-and-white program?	Adjust COLOR control.	Adjust TINT control.	Replace batteries of remote control unit.
Picture rolls vertically.				NO	NO	NO				
Noise bars on screen.										
Picture blurred.										
Lines or streaks in picture.										
Weak picture.										
Wrong colour.								NO	NO	
No color.				NO	NO	NO	NO	NO		
Sound OK but picture poor.				NO	NO	NO				
Picture OK but sound poor.				NO	NO	NO				
Nothing on picture nor sound.	NO									
Sound OK but no picture.					NO					
Weak or inoperable remote control.	First, press the POWER button on the front panel to switch the TV on and off, then check whether the Remote Control is working or not.									NO NO

THEN, CALL FOR SERVICE PERSONNEL.
Be sure to disconnect the power plug, and never try to service the TV yourself.

Important:
An outdoor antenna system of good quality and condition is recommended to eliminate many service problems.

SPECIFICATIONS

Type	: Color monitor/receiver	External speaker terminals	: Impedance 8 – 8 ohms
Reception system	: NTSC system, EIAJ system (Multi-channel sound)	External dimensions (W x H x D)	: 25-3/4" x 22 3/4" x 20 1/8"
Channel coverage	: VHF 2 – 13, UHF 14 – 69, Sub-Mid, Mid, Super, Hyper and Ultra bands (199-channel frequency synthesizer system)	Weight	: 81.8 lbs
		Accessories	: Remote control unit (RM-C484) x 1 AA-size dry cell battery x 2
Power requirement	: AC 120 V, 60 Hz		
Power consumption	: Max. 147 W, Avg. 103 W		
Screen size	: 27" diagonally measure. Full Square		
Audio output	: 1.2 W + 1.2 W		
Speakers	: 3-3/16" x 4-3/4" ellipse x 2		
Antenna input terminal	: 75-ohm (VHF/UHF) terminal (F type connector)		
External input terminals	: Video: Vp-p, 75 ohms Audio: 500 mV rms (–4 dBs), high impedance		
S-VIDEO IN terminal	: Y/ Vp-p positive (negative sync provided, when terminated with 75 ohms) C: 0.286 Vp-p (burst signal, when terminated with 75 ohms)		
Variable audio output terminals	: More than 0 – 1.5 V rms (10 dBs), low impedance (400 Hz when modulated 100%)		

Design and specifications subject to change without notice.

(No.50530) 17

AV-2751S
AV-2751S

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

■ REMOVING THE REAR COVER

1. Unplug the power supply cord and remove the eleven screws marked Ⓐ shown in Fig. 1
* When reinstalling the rear cover, carefully push it inward after inserting the main board into the rear cover groove.

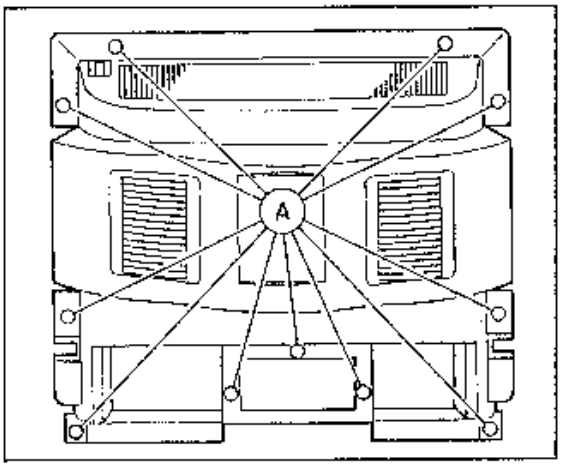


Fig. 1

■ REMOVING THE MAIN BOARD

1. As shown in Fig. 2, slide and pull out the board in the direction of arrow. (If necessary, take off the wire clamp and connectors.)
* When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT socket board and the MAIN board.

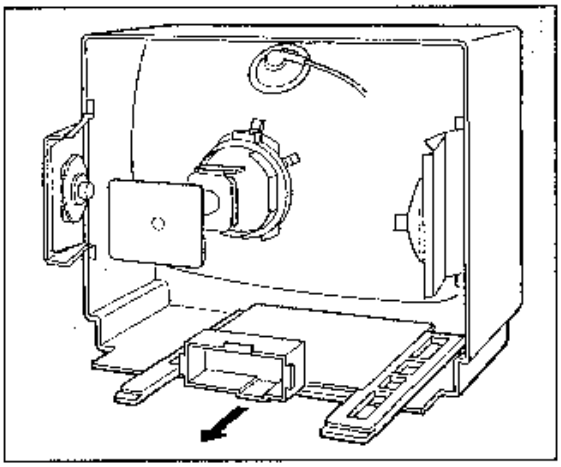


Fig. 2

■ SETTING UP CHASSIS FOR CHEK/REPAIR

1. As shown in Fig.3,set the removed chassis upright.
* When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT socket board and the chassis..

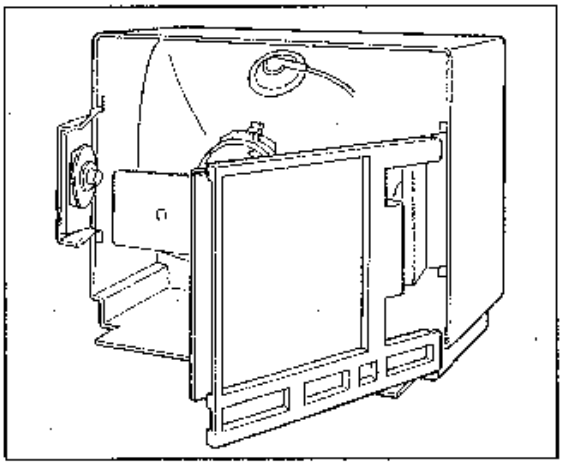


Fig. 3

■ WIRE CLAMPING AND CABLE TIES

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires togeth-er.Should it be inadvertently removed, be sure to tie the wires with a new cable tie

SERVICE ADJUSTMENTS

■ PRIOR TO STARTING ADJUSTMENT

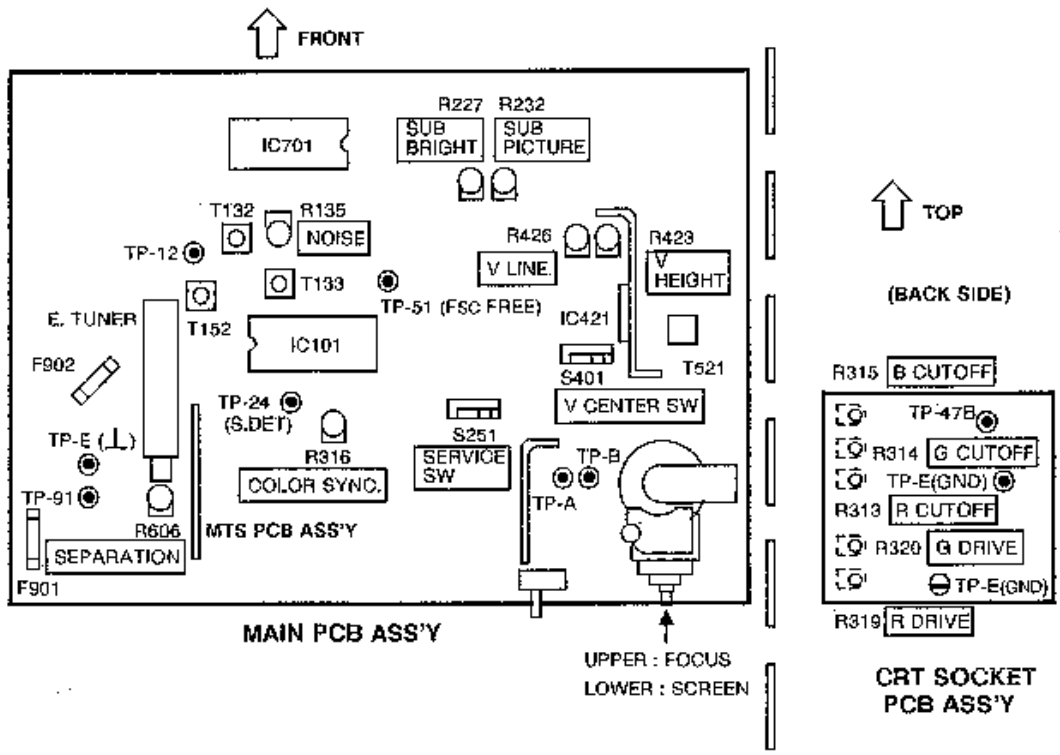
- Allow set and test equipment to warm up fully before adjusting.
- Confirm proper AC 120V power supply input.
- Set BRIGHT, PICTURE, COLOR, etc. AV STATUS to standard settings.
- Use care not to disturb controls other than those mentioned in the adjustment steps.
- Unless otherwise mentioned, use a reception signal that provides the optimum picture for adjustment.

■ TOOLS AND FIXTURES FOR ADJUSTMENT

●MEASURING INSTRUMENTS

1. DC voltmeter (Digital DC voltmeter)
2. Oscilloscope
3. Pattern generator (NTSC type)
4. TV multichannel sound generator
5. Remote control unit (RM-C424)

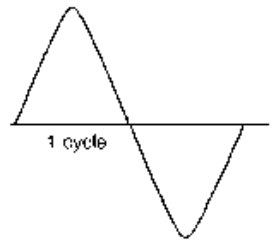
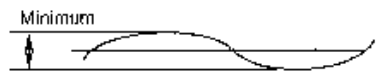
■ ADJUSTMENT LOCATIONS

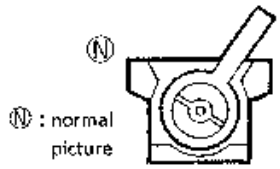


■ADJUSTMENT PROCEDURE

Item	Measuring Instrument	Test point	Adjustment part	Description

•MAIN CIRCUIT

B1 POWER SUPPLY check	DC voltmeter	TP-91 TP-E (⊥)		1. Confirm that the voltage between **TP-91** and TP-E (⊥) is **DC 129.3V**.
NOISE (RF AGC) adjustment			NOISE VR (R135)	1. Adjust the **NOISE VR** so that the noise appears in the picture. 2. Next the **NOISE VR** in a direction that the noise disappears from the picture and stop at the point where the noise has disappeared from the picture. 3. Turn to another channel and confirm that there are no abnormal ities.
COLOR SYNC. adjustment	Pattern generator Oscilloscope	TP-51 (FSC FREE) ⑩ pin of IC101 (9V line)	COLOR SYNC. VR (R316)	1. Receive the color bar signal. 2. Use ashorting clip or other means to connect TP-51 and ⑩ pin (9V line) of IC101. 3. Adjust the **COLOR SYNC. VR** to change the picture from color stripes to still color bar. 4. Remove the connections and check that the color synchronization does not deteriorate on any of the channels.
SEPARATION adjustment	TV multi channel sound generator Oscilloscope	VARIABLE AUDIO OUTPUT L & R	SEPARATION VR (R606)	1. Set the TV multichannel sound signal generator for generating stereo signal and output signal of about 3kHz from the left channel. 2. Connect an oscilloscope to the "L" output and obtain a clear view of 1-cycle portion of 3kHz waveforms. 3. Change connection of the oscilloscope to the "R" output and expand the voltage axis. 4. Adjust the **SEPARATION VR** and minimize the 3kHz crosstalk portion.  1 cycle **L - Channel signal waveform**  Minimum **R - Channel crosstalk portion**
FOCUS adjustment			FOCUS VR (built in FBT)	1. Adjust the FOCUS VR to obtain clear pictures. 2. Check that pictures have been adjusted to optimum appearance in both center and peripheral areas of the screen.

Item	Measuring instrument	Test point	Adjustment part	Description
BRIGHT adjustment	Remote control unit		**SUB BRIGHT VR (R227)**	1. Press the remote control reset button twice to set the brightness to the standard level. 2. Adjustment the **SUB BRIGHT VR** to optimum brightness. • Avoid excessive brightness.
PICTURE adjustment	Remote control unit		**SUB PICTURE VR (R232)**	1. Press the remote control reset button twice to set the picture to the standard level. 2. Adjustment the **SUB PICTURE VR** to optimum picture.
VERTICAL HEIGHT & LINEARITY adjustment	Pattren generator		**V HEIGHT VR (R423)** **V LINE. VR (R426)**	1. Receive a picture that enable s vertical symmetry to be checked. 2. Turn the **V HEIGHT VR** to compress the picture vertically. 3. Adjust the **V LINE. VR** to where the picture is symmetrical top and bottom. 4. Again adjust the **V HEIGHT VR** to return the normal height.
TINT & COLOR adjustment	Remote control unit			1. Press the remote control reset button twice to set the **TINT** and **COLOR** to the standard level. 2. Select the **TINT** and **COLOR** controls with the remote control unit function keys. Use the +/- keys to adjust for the most natural human skin color.
HORIZONTAL LINE display			**SERVICE SWITCH (S251)**	1. Turning the **SERVICE SWITCH** from the N side to the S side will bring the horizontal line display to the screen.  <Rear cover side>

•MULTI-CHANNEL SOUND CIRCUIT

• Do not touch the VRs inside the MTS PCB ASS'Y.

•HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

1. High voltage hold down circuit

After repair of the high voltage hold down circuit shown in Fig. 1, this circuit shall be checked to operate correctly.

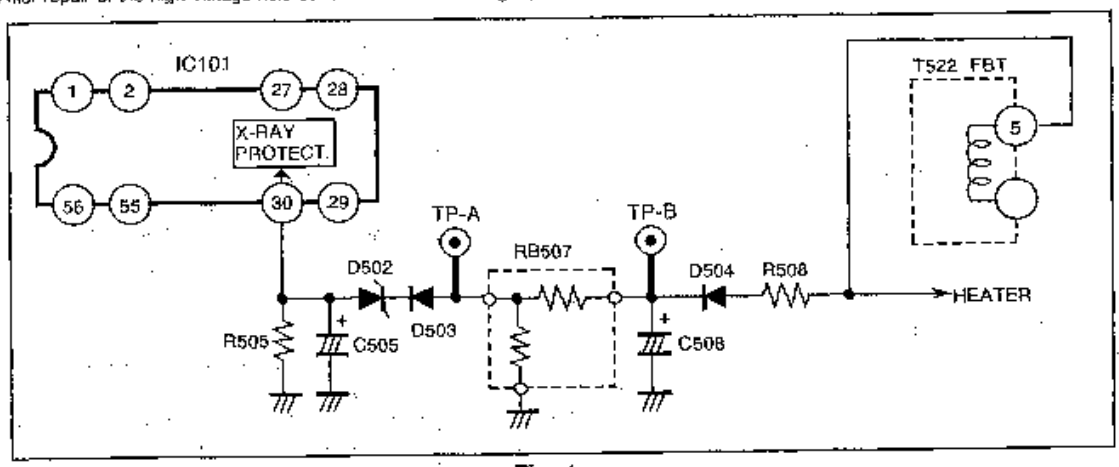


Fig. 1

2. Checking method of the high voltage hold down circuit

(1) Make the short circuit across R905, (shown in Fig. 2) under normal operating condition.

(2) Confirm the picture goes out.

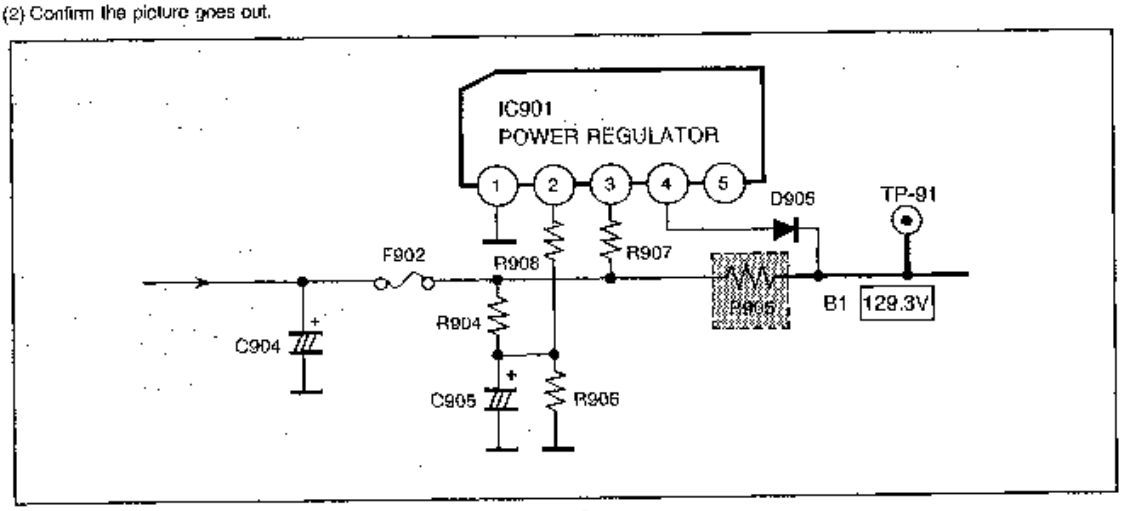


Fig. 2

■ PURITY, CONVERGENCE AND WHITE BALANCE ADJUSTMENTS

* The locations of SERVICE SWITCH, SCREEN VR, CUT-OFF VR and DRIVE VR are described in the ALIGNMENT LOCATION of SERVICE ADJUSTMENT or the SCHEMATIC DIAGRAM.

•PICTURE TUBE

The picture tube is a precision in-line gun type. For this picture tube, dynamic convergence is carried out by a precision deflection yoke which eliminated the use of convergence yoke and convergence circuit. The adjustment of picture tube is therefore made easier as only the adjustment of static convergence by using a magnetic is enough. The deflection yoke and purity/convergency magnets assembly has been set at the factory and requires no field adjustments. However, should the assembly be accidentally jarred or tampered with, some or all adjustments may by necessary.

•COLOR PURITY & VERTICAL CENTER

Loosen yoke retaining screw (Fig. B-1) . With a sharp knife cut between the picture tube and the wedge. Remove wedges completely and clean off dried adhesive from the picture tube. PAINT is used to lock the tabs of the purity/convergence magnet assembly in place (Fig. B-1) . The paint must be removed with the end of a screwdriver before any adjustments are attempted.

(As to models equipped with a magnet locking ring, beforehand loosen it.)

1. Select no signal UHF channel. (or Display a monochrome pattern)
2. Let the purity tabs come in line horizontally as is shown in Fig. B-2. A long tab should be in the same direction as the other short tab.
3. Move the yoke slowly backward.
4. Turn the GREEN CUT-OFF VR to maximum and the RED and BLUE CUT-OFF VRs to minimum. Then adjust the SCREEN VR so that the green band can be seen best. (Fig. B-3)
5. Rotate the two tabs in the opposite directions and with them kept at an angle, together in either direction so that the green band is centered on the picture tube.
6. Check the vertical center position by displaying a horizontal line. (Select the CUT-OFF SERVICE SWITCH from N to S and a HORIZONTAL LINE will appear.) Unless correct, bring it to the nearest center by rotating the two tabs, kept at an angle, together in either direction. (Fig. B-4)
7. Repeat steps 5 and 6 alternately until the green band and the vertical center come to the center.
8. Move the yoke slowly towards the bell of the tube so that the whole surface of the picture tube is filled with a green pure raster.
9. Turning RED or BLUE CUT-OFF VR to maximum and GREEN CUT-OFF VR to minimum, make sure of a red or blue pure raster.
10. Secure yoke retaining screw (do not install wedges at this time) .

(As to models equipped with a magnet locking ring, secure it and keep six magnets from moving even if it is touched slightly.)

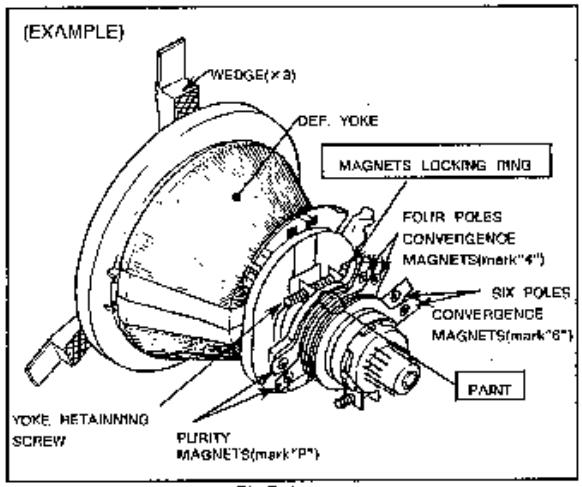


Fig.B-1

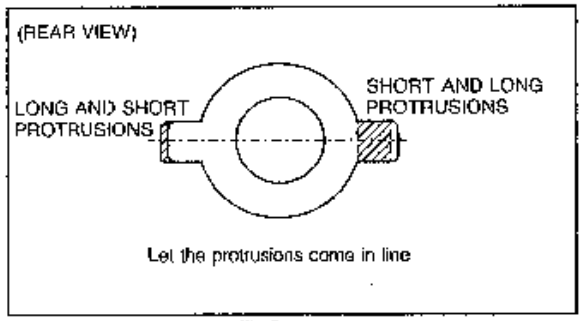


Fig.B-2

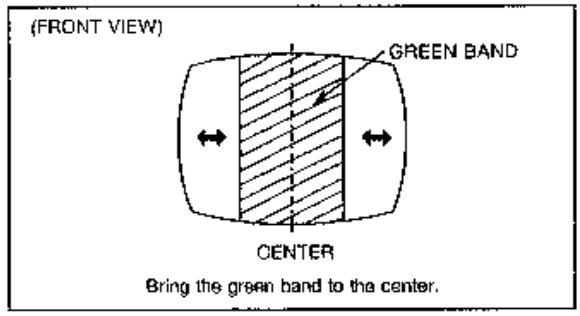


Fig.B-3

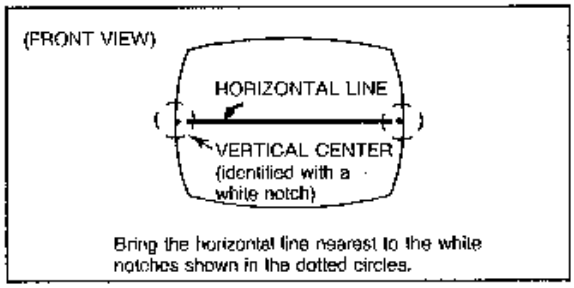

(FRONT VIEW)
HORIZONTAL LINE
VERTICAL CENTER
(identified with a white notch)
Bring the horizontal line nearest to the white notches shown in the dotted circles.

Fig.B-4

•STATIC CONVERGENCE & DYNAMIC CONVERGENCE

1. Connect a crosshatch generator to the input terminals and adjust BRIGHTNESS and CONTRAST control for a distinct pattern.
2. Adjust the convergence around the edges of the picture tube by tilting the yoke, up-down and left-right, and temporarily install one wedge at the top of the yoke. (Fig. B-7, 8, 9)
3. Rotate the front pair of tabs (four pole convergence magnet) as a unit to minimize the separation of the red and blue lines around the center of the screen. To adjust the convergence of red and blue, vary the angle between the tabs (Fig. B-5)
4. Rotate the rear pair of tabs (six pole convergence magnets) as a unit to minimize the separation of the magenta (R/B) and green lines. (Fig. B-6)
5. Adjust the spacing of the rear tabs to converge the magenta and green lines.
6. Apply paint to fix six magnets.
   (As to models equipped with a magnet locking ring, tighten it.)
7. Remove the wedge installed temporarily on the yoke.
8. Tilting the angle of the yoke up, down and sideways, and adjust the yoke so as to obtain the circumference convergence. (Fig. B-8, 9)
9. Insert wedges to the position as shown in Fig. B-10 to obtain the best circumference convergence.
10. Wedge has a backing of double sided adhesive tape. Therefor, tear off one side of adhesive tape, and fix the wedges.
11. White balance adjustment (Black & White tracking) can now be performed.

•WHITE BALANCE ADJUSTMENT

(Black and White Tracking)

1. Display a monochrome pattern.
2. Set the RED and GREEN DRIVE VRs for their mechanical center.
3. Turn the RED, GREEN and BLUE CUT-OFF VRs and the SCREEN VR fully counterclockwise.
4. Display a horizontal line. (Select the CUT-OFF SERVICE SWITCH from N to S and a HORIZONTAL LINE will appear.)
5. Turn SCREEN VR slowly clockwise until a very faint horizontal line appears.
6. Turn the CUT-OFF VR of the color which has appeared first, clockwise by about 10°and then adjust the SCREEN VR again so that the color may shine faintly.
7. Turn the other color CUT-OFF VRs slowly clockwise until a reasonable white line appears.
8. Return the monochrome pattern. (When returning a monochrome pattern select the CUT-OFF SERVICE SWITCH from S to N and a monochrome pattern will appear.)
9. Adjust the RED and GREEN DRIVE VRs for best white highlights.

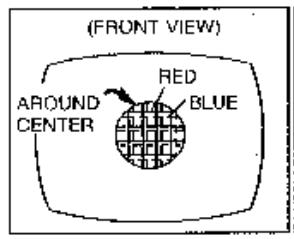


Fig.B-5

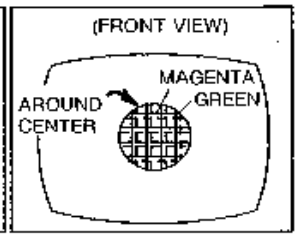


Fig.B-6

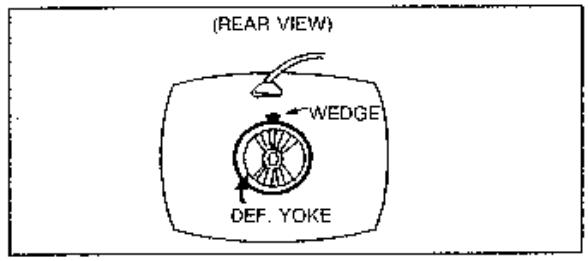


Fig.B-7

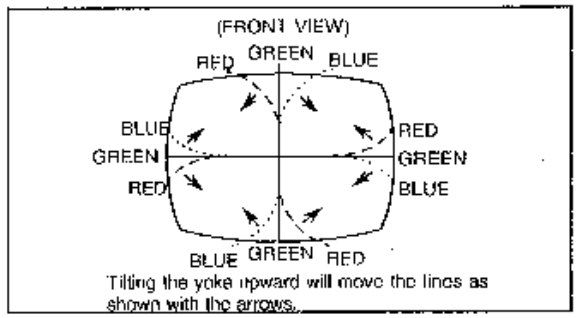


Fig.B-8

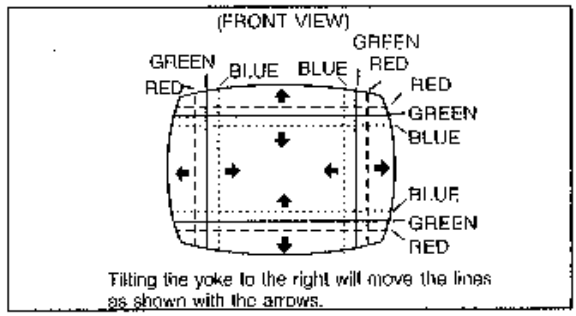


Fig.B-9

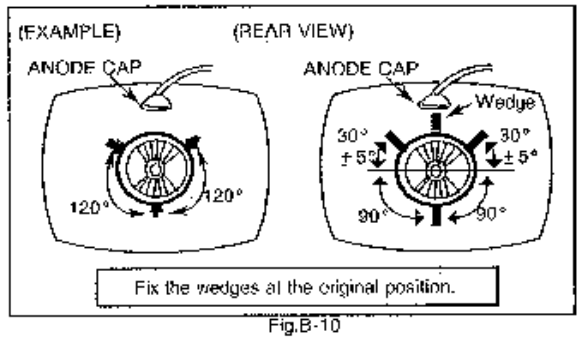


Fig.B-10

AV-2751S(US)
AV-2761S(US)STANDARD CIRCUIT DIAGRAM

■NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal :Color bar signal
(2)Setting positions of each knob/button and variable resistor :Original setting position when shipped
(3)Internal resistance of tester :DC 20kΩ/V
(4)Oscilloscope sweeping time :H ⇒20μS/div
:V ⇒5mS/div
:Others ⇒ Sweeping time is specified
(5)Voltage values :All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL[EXAMPLE]

•In the P.C.board :R1209→R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

•Resistance value

No unit	:[Ω]
K	:[KΩ]
M	:[MΩ]

•Rated allowable power

No indication	:1/6[W]
Others	:As specified

•Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammable resistor
FR	:Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

•Capacitance value

1or higher	:[pF]
less than 1	:[μF]

•Withstand voltage

No indication	:DC50[V]
Others	:DC withstand voltage[V]
AC indicated	:AC withstand voltage[V]

* Electrolytic Capacitors
47/50[Example]:Capacitance value[μF]/withstand voltage[V]

•Type

No indication	:Ceramic capacitor
MY	:Mylar capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

(3)Coils

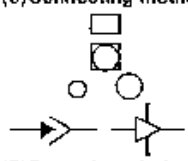
No unit	:[μH]
Others	:As specified

(4)Power Supply

* Respective voltage values are indicated.

(5)Test Point

(6)Connecting method



(7)Ground symbol

: LIVE side ground
: NEUTRAL side ground
: EARTH ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE (primary : ⊥) side GND and the NEUTRAL (secondary : ⏚) side GND. Therefore, care must be taken for the following points.

(1) Do not touch the LIVE side GND or the LIVE side GND and the NEUTRAL side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2) Do not short between the LIVE side GND and NEUTRAL side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and NEUTRAL side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

Jun. 1991 No.50530

SEMICONDUCTOR SHAPES

TRANSISTORS

2SA933S(QR)-1
2SB774(RS)-T
2SC1959(OYG)

2SC1360-C1
2SC2655(Y)-T

2SC2785(JII)-T

2SC3271(NP)-C1

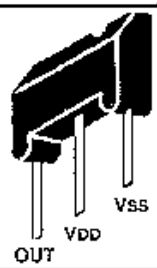
2SD1555-C1

2SC3619

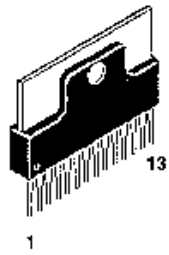
2SC1740S(QR)-1
2SC1740S(R)-T

ICs

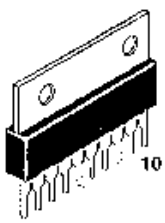
TA78L005AP-Y
TA78L009AP
TA78L012AP-Y



MK1280 K

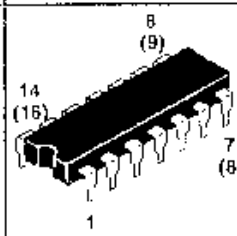


LA7835
LA7838



LA4261

STR30130



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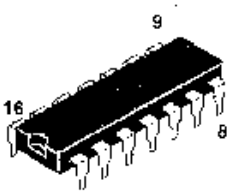
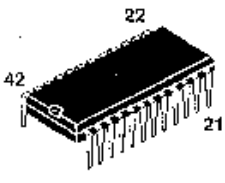
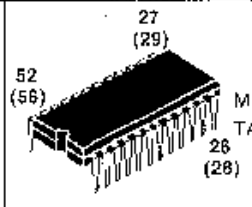
BU4066B
MN12C201D



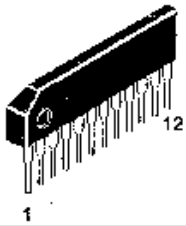
M51320P



CXA1124AS



MN152121JMT5
TA8725N



LA7222

CHANNNEL CHART

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02		I
			03		
			04		
			05		
			06		
		VH	07		II
			08		
			09		
			10		
			11		
			12		
			13		
×	○	MID	A	14	I
			B	15	
			C	16	II
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W+1	37	
			W+2	38	
			W+3	39	
			W+4	40	
			W+5	41	
			W+6	42	
			W+7	43	
			W+8	44	
			W+9	45	
			W+10	46	
			W+11	47	
			W+12	48	IV
			W+13	49	
			W+14	50	
			W+15	51	
			W+16	52	
			W+17	53	
			W+18	54	
			W+19	55	
			W+20	56	
			W+21	57	
			W+22	58	
			W+23	59	
			W+24	60	
			W+25	61	
			W+26	62	
			W+27	63	
			W+28	64	
		ULTRA	W+29	65	
			W+30	66	
			W+31	67	
			W+32	68	
			W+33	69	
			W+34	70	
			W+35	71	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35	71	IV
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
			W+67	108	
			W+68	109	
			W+69	110	
			W+70	111	
			W+71	112	
			W+72	113	
			W+73	114	
			W+74	115	
			W+75	116	
			W+76	117	
			W+77	118	
			W+78	119	
			W+79	120	
			W+80	121	
			W+81	122	
			W+82	123	
			W+83	124	
			W+84	125	
		SUB MID	A-5	01	I
			A-4	96	
			A-3	97	
			A-2	98	
			A-1	99	
○	×	UHF	14 ~ 69		IV

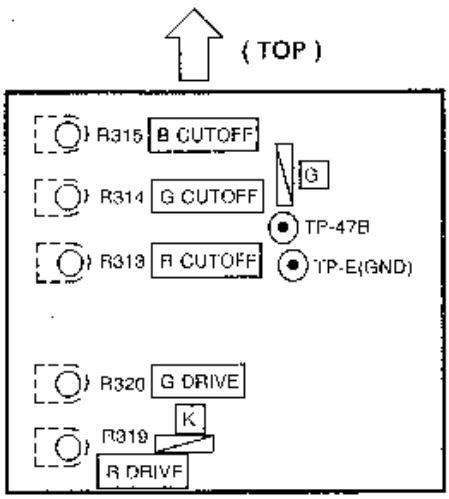
TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

NOTE:
TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES, SPECIAL ADAPTERS MAY BE REQUIED.

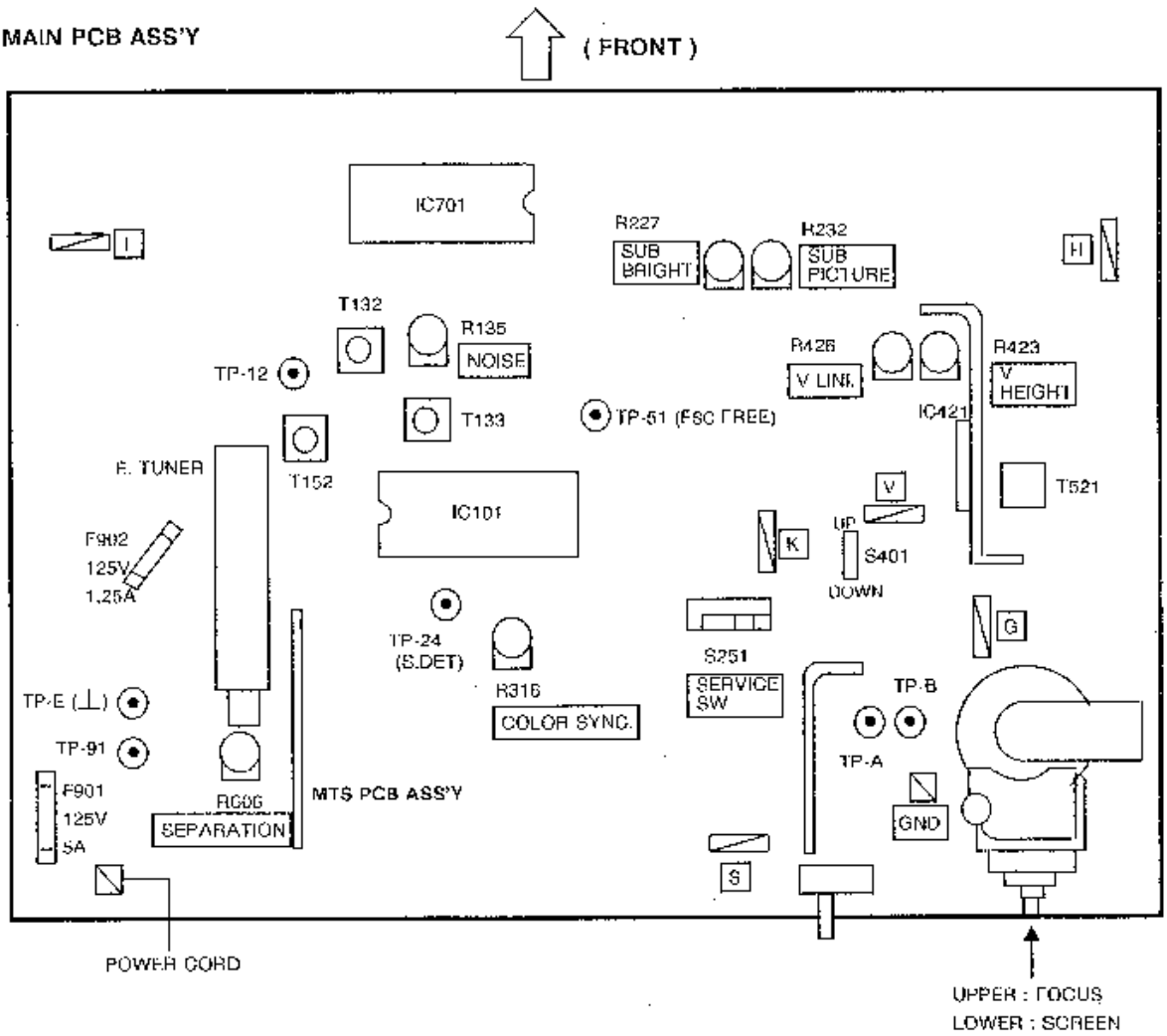
MAINPARTS LOCATION AND ALIGNMENTS LOCATION

CRT SOCKET PCB ASS'Y

(BACK SIDE)



MAIN PCB ASS'Y

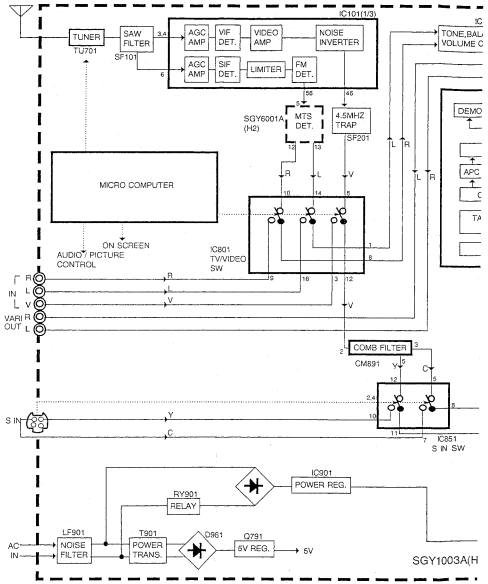


WIRING LIST

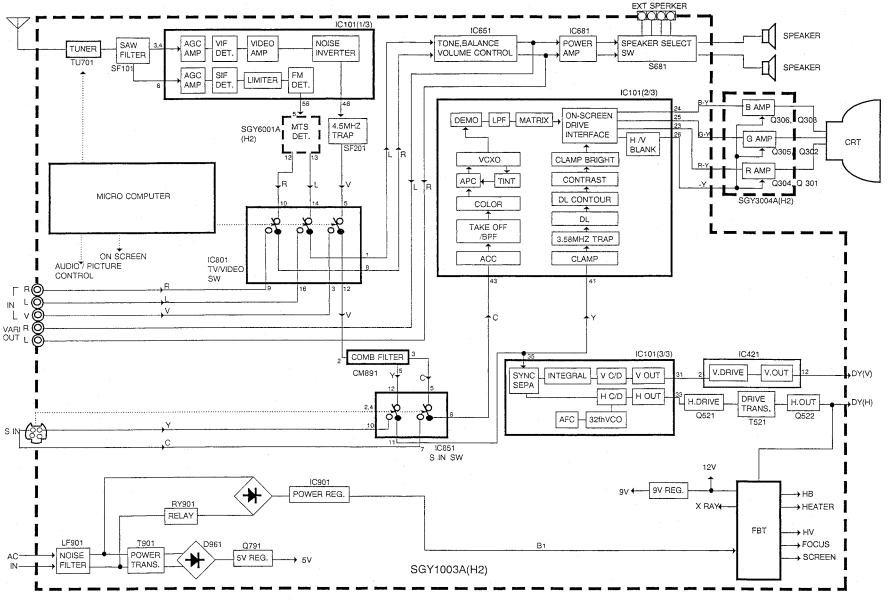
P.C.B. or PART NAME	CONNECTOR NAME	WIRE	CONNECTOR NAME	P.C.B. or PART NAME
MAIN PCB ASS'Y [SGY1003A(H2)]	G	⟷	G	CRT SOCKET PCB ASS'Y [SGY3004A(H2)]
MAIN PCB ASS'Y [SGY1003A(H2)]	H	⟷	WIRE	DEF.YOKE
MAIN PCB ASS'Y [SGY1003A(H2)]	I	⟷	WIRE	DEG.COIL
MAIN PCB ASS'Y [SGY1003A(H2)]	K	⟷	K	CRT SOCKET PCB ASS'Y [SGY3004A(H2)]
MAIN PCB ASS'Y [SGY1003A(H2)]	S(1,2)	⟷	+ −	SPEAKER(L)
MAIN PCB ASS'Y [SGY1003A(H2)]	S(3,4)	⟷	− +	SPEAKER(R)
MAIN PCB ASS'Y [SGY1003A(H2)]	GND	⟷	WIRE	CRT
MAIN PCB ASS'Y [SGY1003A(H2)]	V	⟷	WIRE	DEF.YOKE

●NOTE:Refer to Main Parts and Alignment Locations (Page 2-4) for detailed connector positions.

BLOCK DIAGRAM

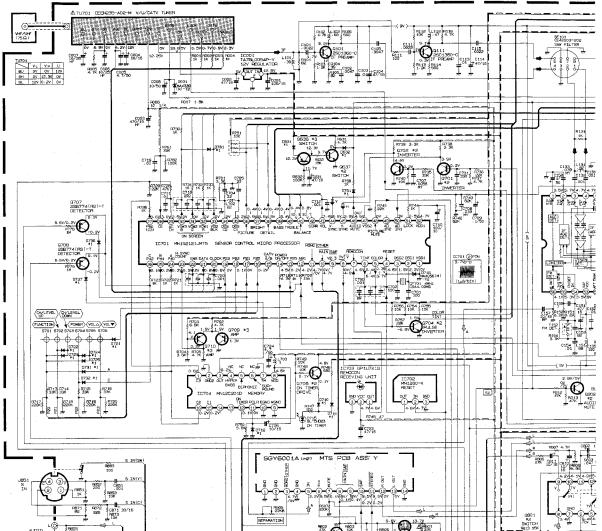


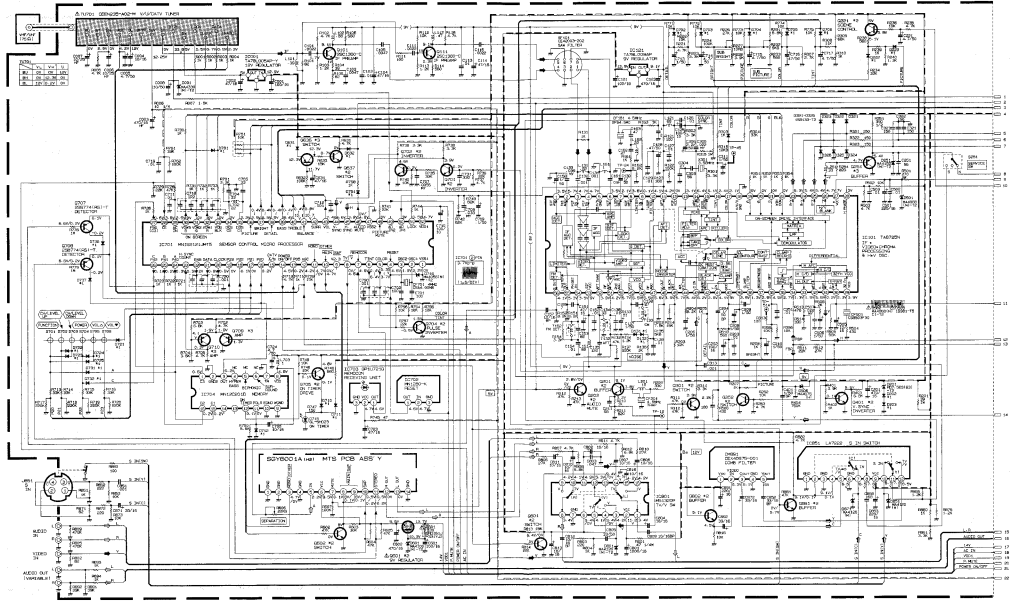
BLOCK DIAGRAM



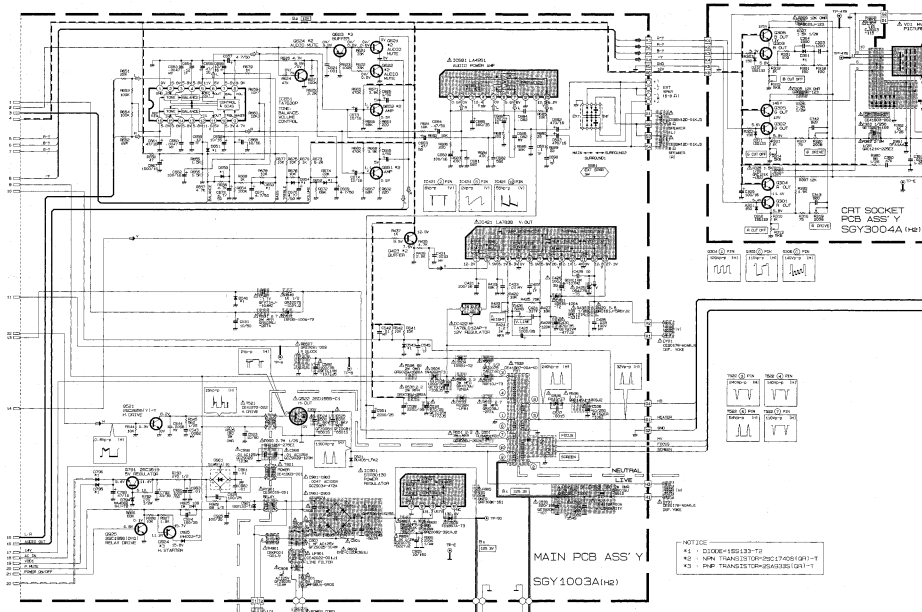
CIRCUIT DIAGRAMS AND PCB PATTERNS

MAIN PCB,CRT SOCKET PCB CIRCUIT DIAGRAMS

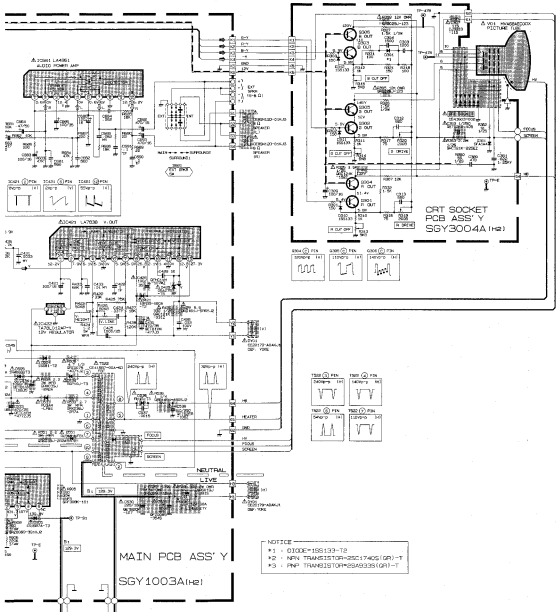




Refer to the following PC Board pattern. : MAIN PCB PATTERN 2-17psge, CRT SOCKET PCB PATTERN 2-19page.



Refer to the following PC Board pattern. : MAIN PCB PATTERN 2-17page, CRT SOCKET PCB PATTERN 2-19page.

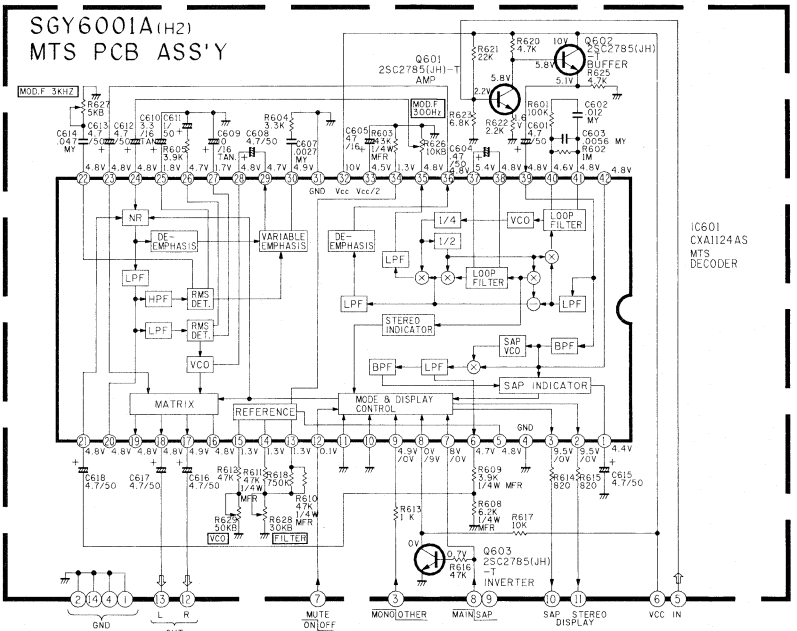


MTS PCB CIRCUIT DIAGRAM

Refer to the following PC Board pattern. : MTS PCB PATTERN 2-20page.

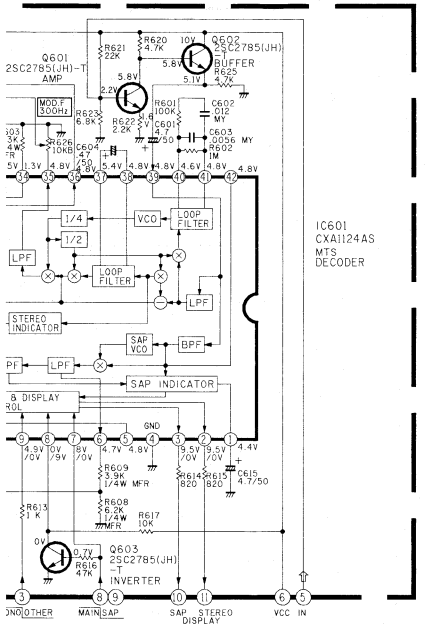
REMO

SGY6001A(H2)
MTS PCB ASS'Y

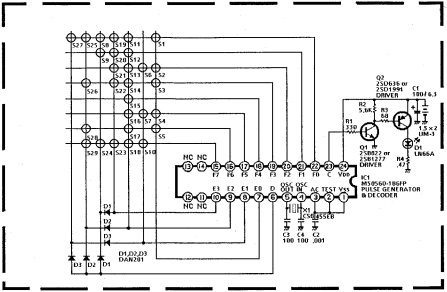


FUNCT

Refer to the following PC Board pattern. : MTS PCB PATTERN 2-20page .



REMOTE CONTROL TRANSMITTER CIRCUIT DIAGRAM [RM-C424-KD-T]

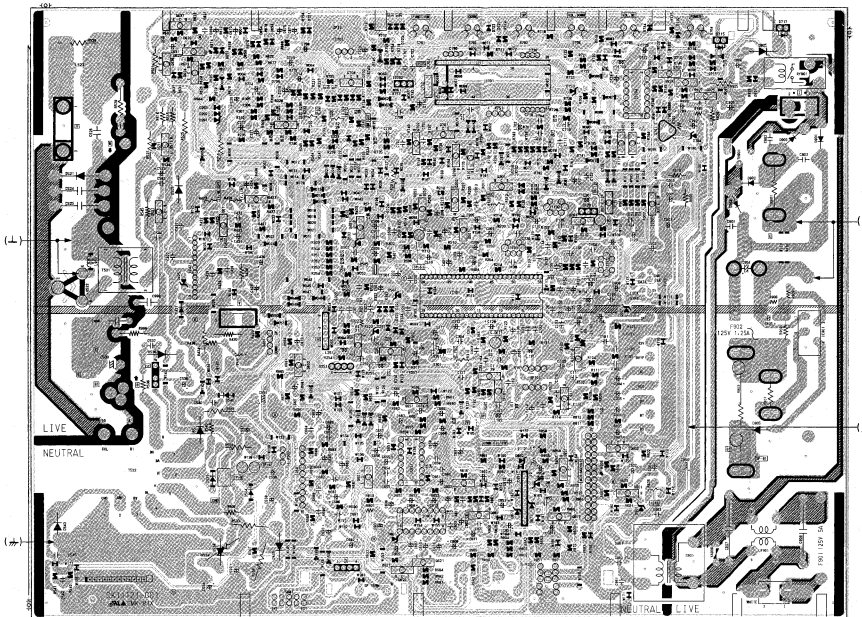


FUNCTION OF KEYS

KEY NO.	FUNCTION	KEY NO.	FUNCTION
S1	MAIN / SAP	S16	3
S2	DISPLAY	S17	4
S3	RETURN	S18	5
S4	ANT / CABLE	S19	6
S5	AV STATUS / RESET	S20	7
S6	TV /VIDEO	S21	8
S7	POWER	S22	9
S8	CHANNEL -	S23	RECALL / CHOICE
S9	CHANNEL +	S24	FUNCTION +
S10	MUTE	S25	FUNCTION -
S11	VOLUME +	S26	100 +
S12	VOLUME -	S27	FUNCTION BACK
S13	0	S28	MENU
S14	1	S29	FUNCTION FORWARD
S15	2		

MAIN PCB PATTERN [SGY1003A(H2)]

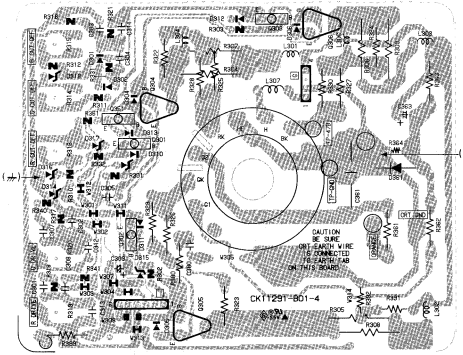
(Magnification Rate 98%)



CRT SOCKET PCB PATTERN [SGY3004A(H2)]

TOP

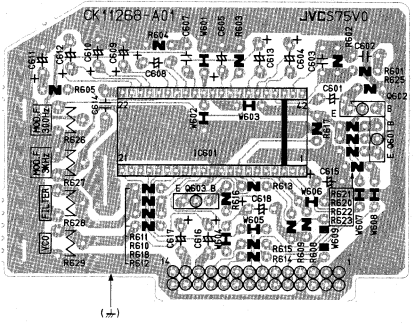
(Magnification Rate142%)



MTS PCB PATTERN [SGY6001A(H2)]

TOP

(Magnification Rate 200%)



PARTS LIST

CAUTION

- The parts marked ⚠ are very important for the safety. When replacing these parts, be sure to use specified ones to secure the safety and performance.
- The module circuit board is supplied together with the assembly, but the parts which do not have the drawing in this Parts List, P. C. Board Ass'y and the Parts No. columns of which are filled with lines —— . will not be supplied.
- As a rule, the resistors and capacitors which are indicated as shown in (NOTE 2) "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board.
  When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to (NOTE 2).

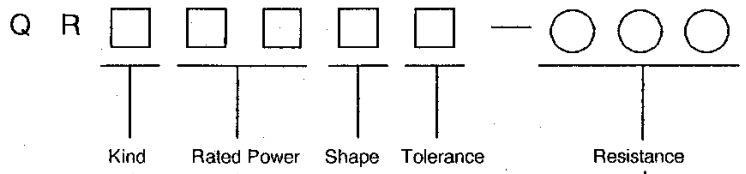
(NOTE 1) ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% - 10%	+50% - 10%	+80% - 20%	+100% - 0%

(NOTE 2) HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

■ RESISTOR



Symbol	Part Name
C	COMP.R
D	C R
S	CH MG R

Symbol	Rated Power
0 1	1 w
1 2	1/2 w
1 4	1/4 w
1 6	1/6 w
1 8	1/8 w

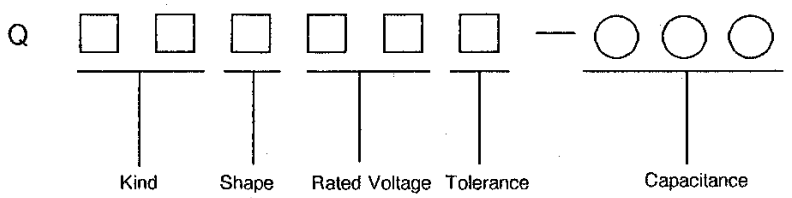
Symbol	Shape
1	Straight lead
8	Chip

Indicate with first two-figure expressed by Ω and following 0.
please note that,in case of resistance less than 10 Ω, a letter "R"will be effective as point.

EX.

2.2 Ω = 2R2
470 Ω = 47×10^{1} → 471
150kΩ = 15×10^{4} → 154

■ CAPACITOR



Symbol	Part Name
CS	C CAP.
CS	CH C CAP.
ET	E CAP.
FM	M CAP.

5Figure / 6Figure	0	1	2
A		10V	100V
C		16V	160V
D			200V
E		25V	250V
H		50V	500V
J	6.3V	63V	
V		35V	

Indicate with first two-figure expressed by pF and following 0.
Please note that,in case of capacitance less than 10 pF a letter "R" will be effective as point.

EX

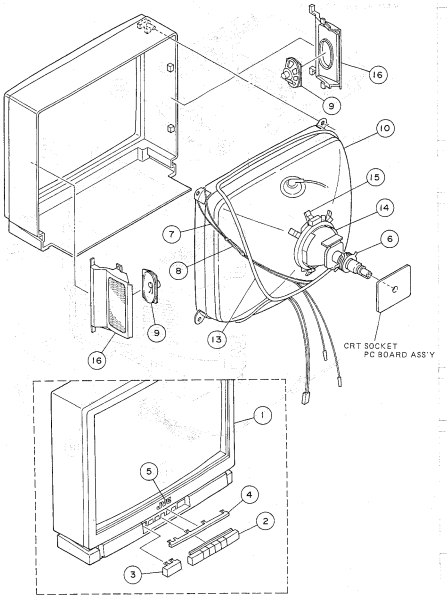
5pF = 5R0
1000pF = 10×10^{2} → 102
47μF = 47×10^{6} → 476

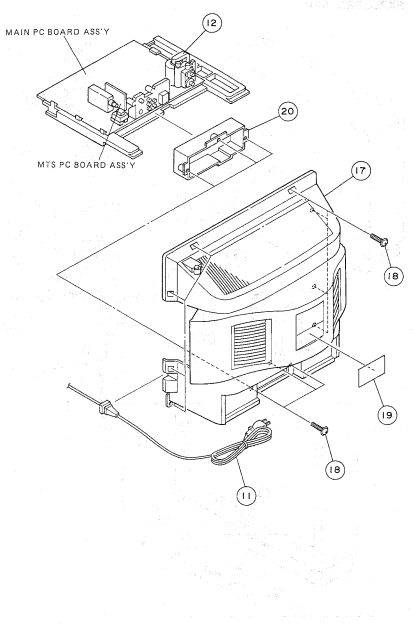
Symbol	Shape
1	Straight lead
1	Leads in the same direction
8	Chip
A	Leads in the same direction (compact part)

EXPLODED VIEW PARTS LIST

SYMBOL NO.	PART NO.	PART NAME	REMARKS
	1 CM11578-AGC-MA	FRONT CABINET	(AV-2781S)
	1 CM11578-AGB-MA	FRONT CABINET	(AV-2751S)
	2 CM33708-C0A-KD	PUSH KNOB	
	3 CM45810-A01-VD	REMOCON WINDOW	
	4 CM33705-003-V0	KNOB HOLDER	
	5 CM43094-002	JVC MARK	
	6 AT5034-5	P.C.MAGNET	
	7 CMGB0003-0A-GA	BRAIDED ASSY	
	8 A68457	SPRING	
⚠	9 CEBSN12D-01KJ3	SPEAKER	×2 SP01.02
⚠	10 MVA68ABC00X	PICTURE TUBE	V01
⚠	11 CMP14C0-250J3	POWER CORD	
⚠	12 CE41987-00A-KD	FLYBACK TRANSF.	T1522
⚠	13 CE41329-00CJ2	DEGAUSSING COIL	L01
⚠	14 CE20179-A0AKJ1	DEFLECTION YOKE	DY01
	15 CE41996-00AJ1	WEDGE ASSY	×4
	16 CM11666-A01-VA	SPEAKER GRILLE	
	17 CM11548-061-MA	REAR COVER	
	18 GBSP40J6M	TAPPING SCREW	×11
	19 CM44889-001-A	RATING LABEL	
	20 CM2222B-B01-VA	TERMINAL ADP	

EXPLODED VIEW





PRINTED CIRCUIT BOARD PARTS LIST

MAIN PC BOARD Ass'y (SGY1003A(H2))

SYMBOL NO.	PART NO.	PART NAME	REMARKS
VARIABLE R			
R1135	QVPE510-502H	TRIM. R	5kΩ B (NOISE)
R1227	QVPA501-103J5	V R	10kΩ B (SUB BRIGHT)
R1232	QVPE510-502H	TRIM. R	5kΩ B (SUB PICTURE)
R1316	QVPE510-103H	TRIM. R	10kΩ B (COLOR SYNC.
R1423	QVPE510-503H	TRIM. R	50kΩ B (V HEIGHT)
R1486	QVPE510-503M	TRIM. R	50kΩ B (V LINE.)
R1606	QVPA501-223J5	V R	22kΩ B (SEPARATON)
RESISTOR			
⚠ RB150T	QRZ0391-009	NET R	
R1005	QRD144J-1005J2	C R	10 Ω 1/4W J
R1201	QRG019J-270S	OM R	27 Ω 1W J
R1251	QRZ0050-391XJ2	C R	390 Ω 1/2W J
R1355	QRV141F-1002AY	MF R	10kΩ 1/4W F
R1356	QRV141F-8201AY	MF R	8.2kΩ 1/4W F
R1424	QRX019J-1R2S	MF R	1.2 Ω 1W J
⚠ R1429	QRD186J-5R6YJ2	C R	
⚠ R1430	QRC121K-331Z	COMP. R	330 Ω 1/2W K
R1438	QRZ0075-821YJ2	C R	820 Ω 1/2W J
R1439	QRZ0075-122YJ2	C R	1200 Ω 1/2W J
R1581	QRG019J-271S	OM R	270 Ω 1W J
⚠ R1588	QRZ0075-4R7YJ2	C R	4.7 Ω 1/2W J
R1525	QRG029J-181A	OM R	180 Ω 2W J
R1526	QRG029J-680A	OM R	68 Ω 2W J
⚠ R1528	QRG019J-391S	OM R	390 Ω 1W J
⚠ R1529	QRG029J-152A	OM R	1.5kΩ 3W J
⚠ R1531	QRX029J-2R7A	MF R	2.7 Ω 2W J
⚠ R1533	QRX029J-2R7A	MF R	2.7 Ω 2W J
⚠ R1534	QRX039J-2R2A	MF R	2.2 Ω 2W J
⚠ R1536	QRD144J-1R0SJ2	C R	1.0 Ω 1/4W J
⚠ R1538	QRX039J-2R2A	MF R	2.2 Ω 2W J
⚠ R1540	QRZ0075-102YJ2	C R	1.0kΩ 1/2W J
⚠ R1551	QRX039J-2R2A	MF R	2.2 Ω 2W J
⚠ R1601	QRD181J-331YJ2	C R	330 Ω 1/6W J
R1751	QRB0351-103	NETW. R	10kΩ 1/8W J
R1792	QRZ0090-271XJ2	C R	270 Ω 1/2W J
R1793	QRZ0090-271XJ2	C R	270 Ω 1/2W J
R1801	QRZ0089-470XJ2	C R	47 Ω 1/4W J
R1872	QRZ0089-221XJ2	C R	220 Ω 1/4W J
⚠ R1901	QRF074K-1R8J5	UNF R	1.8 Ω 7W K
⚠ R1904	QRZ0075-822YJ2	C R	8.2kΩ 1/2W J
⚠ R1905	QRF304K-151	UNF R	150 Ω 30W K
R1906	QRZ0089-224XJ2	C R	220kΩ 1/4W J
⚠ R1907	QRF054K-4R7J5	UNF R	4.7 Ω 5W K
⚠ R1908	QRZ0089-391XJ2	C R	390 Ω 1/4W J
⚠ R1909	ERZ-C10DK361U	ZINC N R	
R1925	QRG019J-101S	OM R	100 Ω 1W J
R1929	QRZ0075-685YJ2	C R	68 Ω 1/2W J
⚠ R1939	QRC121K-275EZ	COMP. R	2.7MΩ 1/2W K
CAPACITOR			
C1003	QEM41CM-477M	E CAP.	470μF 16V M
C1006	QEM61EK-106MZ	E CAP.	10μF 25V K
C1007	QEM61EK-106MZ	E CAP.	10μF 25V K
C1133	QFLC1HJ-393MZ	M CAP.	0.039μF 50V J
C1134	QCT25CH-330ZJ5	C CAP.	33pF 50V J
C1135	QCT25CH-121ZJ5	C CAP.	120pF 50V J
C1138	QCT25RH-270AZ	C CAP.	27pF 50V J
C1157	QEN61CM-106ZJ3	BP E CAP.	10μF 16V M
C1204	QEN61DM-105ZJ3	BP E CAP.	1μF 50V M

	SYMBOL NO.	PART NO.	PART NAME	REMARKS
	CAPACITOR			
	C1305	QFLC1HK-223MZ	M CAP.	0.022μF 50V K
	C1401	QFN61HM-105ZJ3	BP E CAP.	1μF 50V M
	C1422	QFV81HJ-105M	TF CAP.	1μF 50V J
⚠	C1426	QEHC1VM-107MZ	E CAP.	100μF 35V M
	C1428	QFL52AK-333M	M CAP.	0.033μF 100V K
⚠	C1429	QETB1VM-477J3	E CAP.	470μF 35V M
	C1431	QFN31HK-332ZJ1	M CAP.	3300pF 50V K
	C1432	QFLC1HK-103MZ	M CAP.	0.01μF 50V K
⚠	C1508	QETC1VM-107ZJ5	E CAP.	100μF 35V M
⚠	C1524	QFZ0081-6501S	M P P CAP.	65pF 1600V ±3%
⚠	C1525	QFZ0C81-6501S	M P P CAP.	65pF 1600V ±3%
⚠	C1526	QFZ0C89-3545	M P P CAP.	0.35μF 200V J
⚠	C1530	QETB2CM-107	E CAP.	100μF 160V M
⚠	C1533	QETC1EM-477ZJ5	E CAP.	470μF 25V M
⚠	C1534	QETB1VM-108J5	E CAP.	1000μF 35V M
⚠	C1536	QETB2SR-109Z	E CAP.	10μF 250V R
⚠	C1540	QFV71HJ-104MZ	TF CAP.	0.1μF 50V J
	C1542	QFLC1HK-103MZ	M CAP.	0.01μF 50V K
	C1543	QFN31HK-822ZJ1	M CAP.	8200pF 50V K
	C1544	QFN31HK-562ZJ1	M CAP.	5600pF 50V K
	C1545	QFV81HJ-105M	TF CAP.	1μF 50V J
	C1553	QFN31HK-472ZJ1	M CAP.	4700pF 50V K
	C1554	QFV71HJ-124MZ	TF CAP.	0.12μF 50V J
	C1559	QFV71HJ-124MZ	TF CAP.	0.12μF 50V J
	C1560	QFN31HK-472ZJ1	M CAP.	4700pF 50V J
	C1583	QETC1CM-107ZJ3	E CAP.	100μF 16V M
	C1584	QFLC1HJ-823MZ	M CAP.	0.082μF 50V J
	C1585	QETC1VM-107ZJ5	E CAP.	100μF 35V M
	C1586	QETC1CM-107ZJ3	E CAP.	100μF 16V M
	C1588	QFLC1HJ-823MZ	M CAP.	0.082μF 50V J
	C1590	QFV71HJ-104MZ	TF CAP.	0.1μF 50V J
	C1591	QFV71HJ-104MZ	TF CAP.	0.1μF 50V J
	C1707	QFN31HK-562ZJ1	M CAP.	5600pF 50V K
	C1708	QFN51HK-332ZJ1	M CAP.	3300pF 50V K
	C1709	QDKC1HM-104SMZ	S CAP.	0.1μF 50V M
	C1718	CBCN0D3-101	NET CAP.	100pF 50V K
	C1720	CBCN0C4-102	NET CAP.	1000pF 50V K
	C1790	CBCN0D4-102	NET CAP.	1000pF 50V K
	C1792	QETC1VM-336ZJ3	E CAP.	33μF 35V M
	C1809	QBN01CM-106ZJ3	BP E CAP.	10μF 16V M
	C1812	QBN61CM-106ZJ3	BP E CAP.	10μF 16V M
	C1852	QBN61CM-336ZJ3	BP E CAP.	33μF 16V M
⚠	C1901	QCZ9C34-472A	C CAP.	4700pFAC125V P
⚠	C1902	QCZ9C34-472A	C CAP.	4700pFAC125V P
⚠	C1903	QCZ9C34-472A	C CAP.	4700pFAC125V P
⚠	C1904	QEX0145-567R	E CAP.	560μF
	C1905	QETC2CM-106Z	E CAP.	10μF 160V M
⚠	C1907	QFZ9025-104M	M P P CAP.	0.1μFAC125V M
⚠	C1908	QFZ9025-104M	M P P CAP.	0.1μFAC125V M
	C1925	QETC1VM-107ZJ5	E CAP.	100μF 35V M
⚠	C1928	QCZ9029-103M	C CAP.	0.01μFAC125V M
⚠	C1929	QCZ9029-103M	C CAP.	0.01μFAC125V M
	TRANSFORMER			
	T1132	CE40123-409	AFC TRANSF	
	T1133	CELT001-209	CW TRANSF	
	T1152	CELT003-104	S. I. F. TRANSF.	
⚠	T1521	CE41970-002	DRIVE TRANSF.	
⚠	T1961	CE41953-001	POWER TRANSF	

	SYMBOL NO.	PART NO.	PART NAME	REMARKS
	COIL			
	L1101	CELP043-R39	PEAKING COIL	
	L1102	CELP043-R68	PEAKING COIL	
	L1118	CELPC43-R47	PEAKING COIL	0.47μH
	L1121	CELPC26-330ZJ3	PEAKING COIL	
	L1131	CELP043-R82J(	PEAKING COIL	
	L1151	CELP026-680ZJ3	PEAKING COIL	
	L1161	CELP043-1R0J1	PEAKING COIL	
	L1162	CELP026-220ZJ3	PEAKING COIL	
	L1201	CELP026-150ZJ3	PEAKING COIL	
	L1251	CELP026-330ZJ3	PEAKING COIL	
	L1252	CELP026-820ZJ3	PEAKING COIL	
⚠	L1523	CEK1124 009A	LINEARITY COIL	
	L1702	CELP026-220ZJ3	PEAKING COIL	
	L1703	CELP026-1R0ZJ3	PEAKING COIL	
	DIODE			
	D1031	MA4330 (M)-T2	ZENER DIODE	
	D1032	1SS133	SI. DIODE	
	D1131	1SS133 T2	SI. DIODE	
	D1132	1SS133-T2	SI. DIODE	
	D1201	RDY.5G5(B3)-T2	ZENER DIODE	
	D1212	1SS133 T2	SI. DIODE	
	D1213	1SS133-T2	SI. DIODE	
	D1222	1SS133-T2	SI. DIODE	
	D1223	1SS133-T2	SI. DIODE	
	D1231	MA4150 (M)-T2	ZENER DIODE	
	D1311	1SS133-T2	SI. DIODE	
	D1321	1SS133 T2	SI. DIODE	
	D1322	1SS133-T2	SI. DIODE	
	D1323	1SS133 T2	SI. DIODE	
	D1324	1SS133-T2	SI. DIODE	
	D1325	1SS133-T2	SI. DIODE	
	D1326	1SS133-T2	SI. DIODE	
⚠	D1421	1SR35-100A-T2	SI. DIODE	
⚠	D1425	05AZ75-T5	ZENER DIODE	
	D1501	MA4056 (M) T2	ZENER DIODE	
⚠	D1502	MA4068 (M) C1 T2	ZENER DIODE	
⚠	D1503	1SS81-T5	SI. DIODE	
⚠	D1504	1SS81-T2	SI. DIODE	
⚠	D1505	1N4003 T3	SI. DIODE	
	D1506	RD7.5ES(B3)-T2	ZENER DIODE	
⚠	D1521	RU4DS-LFK2	SI. DIODE	
⚠	D1531	1SR35-100A-T2	SI. DIODE	
⚠	D1533	RU3AM-LFBI	SI. DIODE	
⚠	D1534	RGP10J-T3	SI. DIODE	
⚠	D1536	RH1S-T3	SI. DIODE	
	D1540	1SS81-T2	SI. DIODE	
	D1543	DFA1A4-T3	SI. DIODE	
⚠	D1551	RU3AM-LFBI	SI. DIODE	
	D1601	MA4120 (M)-T2	ZENER DIODE	
	D1631	1SS133-T2	SI. DIODE	
	D1632	1SS133-T2	SI. DIODE	
	D1550	1SS133-T2	SI. DIODE	
	D1551	1SS133-T2	SI. DIODE	
	D1552	1SS133-T2	SI. DIODE	
	D1553	1SS133-T2	SI. DIODE	
	D1554	1SS133-T2	SI. DIODE	
	D1702	1SS133-T2	SI. DIODE	
	D1703	1SS133-T2	SI. DIODE	

SYMBOL NO.	PART NO.	PART NAME	REMARKS
DIODE			
D1704	1SS133-T2	SI. DIODE	
D1705	1SS133-T2	SI. DIODE	
D1706	1SS133-T2	SI. DIODE	
D1710	1SS133-T2	SI. DIODE	
D1711	1SS133-T2	SI. DIODE	
D1712	1SS133-T2	SI. DIODE	
D1715	GL-5FD23	L. E. D.	
D1716	MA4056 (M) -T2	ZENER DIODE	
D1721	1SS130-T2	SI. DIODE	
D1722	1SS133-T2	SI. DIODE	
D1723	1SS133 T2	SI. DIODE	
D1724	1SS133-T2	SI. DIODE	
D1725	1SS133-T2	SI. DIODE	
D1731	1SS133-T2	SI. DIODE	
D1732	1SS133-T2	SI. DIODE	
D1736	1SS133-T2	SI. DIODE	
D1737	1SS133-T2	SI. DIODE	
D1751	1SS133-T2	SI DIODE	
D1781	1SS133-T2	SI. DIODE	
D1784	MA4062 (H) T2	ZENER DIODE	
D1785	1SS133 T2	SI. DIODE	
D1786	1SS133-T2	SI. DIODE	
D1801	MA4120 (M) -T2	ZENER DIODE	
⚠ D1801	1S1887A	SI. DIODE	
⚠ D1802	1S1887A	SI. DIODE	
⚠ D1903	1S1887A	SI. DIODE	
⚠ D1904	1S1887A LC7	SI. DIODE	
⚠ D1905	1S1887A-T3	SI. DIODE	
D1921	1SS133-T2	SI. DIODE	
D1925	1N4003-T3	SI. DIODE	
D1961	SIWB (A) LO	SI. DIODE	
TRANSISTOR			
Q1101	2SC1360-C1	SI. TRANSISTOR	
Q1111	2SC1360-C1	SI. TRANSISTOR	
Q1201	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1202	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1221	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1251	2SA933S (QR) -T	SI. TRANSISTOR	
Q1252	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1301	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1401	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1423	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1521	2SC2655 (Y) -T	SI. TRANSISTOR	
⚠ Q1522	2SD1555-C1	POWER TRANSISTOR	
⚠ Q1601	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1602	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1621	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1622	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1623	2SA933S (QR) T	SI. TRANSISTOR	
Q1624	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1636	2SA933S (QR) T	SI. TRANSISTOR	
Q1637	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1651	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1652	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1701	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1702	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1704	2SC1740S (QR) -T	SI. TRANSISTOR	
Q1705	2SC1740S (QR) -T	SI. TRANSISTOR	

	SYMBOL NO.	PART NO.	PART NAME	REMARKS
	TRANSISTOR			
	Q1707	2SB774 (RS) -T	SI. TRANSISTOR	
	Q1708	2SB774 (RS) -T	SI. TRANSISTOR	
	Q1709	2SA933S (QR) -T	SI. TRANSISTOR	
	Q1710	2SA933S (QR) -T	SI. TRANSISTOR	
	Q1781	2SC3013	SI. TRANSISTOR	
	Q1801	2SC1740S (QR) T	SI. TRANSISTOR	
	Q1802	2SC1740S (QR) -T	SI. TRANSISTOR	
	Q1851	2SA933S (QR) -T	SI. TRANSISTOR	
	Q1871	2SA933S (QR) -T	SI. TRANSISTOR	
	Q1881	2SC1740S (QR) -T	SI. TRANSISTOR	
	Q1924	2SA933S (QR) -T	SI. TRANSISTOR	
	Q1925	2SC1959 (OYG)	SI. TRANSISTOR	
	IC			
	IC1001	TA78L005AP Y	I. C. (H)	
	IC1101	TA8728N	IC	
	IC1121	TA78L009AP	I. C. (M)	
⚠	IC1421	LA7838	I. C.	
⚠	IC1422	TA78L012AP-Y	I. C.	
	IC1681	TA7630P	I. C. (M)	
⚠	IC1682	LA4261	I. C (M)	
	IC1701	MN152121JMT5	I. C. (M)	
	IC1702	MN1280-K	I. C. (M)	
	IC1703	GP1U721Q	IPR DETECT UNIT	
	IC1724	MN12C201D	I. C. (M)	
	IC1801	M51320P	I. C. (M)	
	IC1853	LA7222	I. C.	
⚠	IC1901	STR30130	I. C. (H)	
	OTHERS			
		SGY6001A (H2)	MTS PB ASSY	
		CM34947-00A-VH	A/V TERMINAL	
	CF1161	SFSA4.5MC	CERAMIC FILTER	
	CF1201	CR41505-001	CERAMIC FILTER	
	CF1501	CSB503F30	C RESONATOR	
	CF1701	CSA4.00MG3	CERAMIC FILTER	
	CM1891	CR42114-001	COMB FILTER MOD.	
⚠	F1901	QMF66U1-5R0S	FUSE	
⚠	F1902	QMF53U1-1R25S	FUSE	
⚠	LF1901	CR42022-001J1	LINE FILTER	
⚠	RY1901	CESK019-001	RELAY	
	SF1101	CR42003-202	SAW FILTER	
	S1251	QSL6A13-C01J2	LEVER SWITCH	SERVICE SW
	S1431	QSL6A13-C01J2	LEVER SWITCH	V. CENTER SW
	S1681	QSS1F23-CC4	SLIDE SWITCH	SPEAKER SELECT SW
	S1751	QSP4H11-CC3	PUSH SWITCH	FUNC
	S1702	QSP4H11-CC3	PUSH SWITCH	CH/LEVEL UP
	S1703	QSP4H11-C03	PUSH SWITCH	CH/LEVEL DOWN
	S1704	QSP4H11-C03	PUSH SWITCH	POWER
	S1705	QSP4H11-C03	PUSH SWITCH	VOL△
	S1706	QSP4H11-C03	PUSH SWITCH	VOL▽
⚠	TH1901	CEKP501-001J1	P. THERMISTOR	
⚠	TU1701	CDEK258-A02-M	TUNER	
	X1301	CR40668-001J1	CRYSTAL	

CRT SOCKET PC BOARD Ass'y (SGY3004A(H2))

	SYMBOL NO.	PART NO.	PART NAME	REMARKS
	VARIABLE R			
	R3313	QVPA803-502M	V R	5kΩ B (R CUT OFF)
	R3314	QVPA803-502M	V R	5kΩ B (G CUT OFF)
	R3315	QVPA803-502M	V R	5kΩ B (B CUT OFF)
	R3319	QVPA803-201M	V R	200 Ω B (R DRIVE)
	R3320	QVPA803-201M	V R	200 Ω B (G DRIVE)
	RESISTOR			
⚠	R3305	QRG229J-123	OM R	12kΩ 2W J
	R3307	QRG229J-123	OM R	12kΩ 2W J
⚠	R3309	QRG229J-123	OM R	12kΩ 2W J
⚠	R3325	QRC121K-152Z	COMP. R	1.5kΩ 1/2W K
⚠	R3363	QRC121K-225EZ	COMP. R	2.2MΩ 1/2W K
	CAPACITOR			
	C3351	QFH63BK-223M	MM CAP.	0.022μF 1250V K
⚠	C3363	QET52ER-105	E CAP.	1μF 250V R
	COIL			
⚠	L3307	CJ30C3C-115	HEATER CHOKE	
	DIODE			
	D1310	1SS133-T2	SI. DIODE	
	D1311	1SS133-T2	SI. DIODE	
	D1312	1SS133-T2	SI. DIODE	
	D3301	1SS133-T2	SI. DIODE	
	D3302	1SS133-T2	SI. DIODE	
	D3361	DFM1A4	SI. DIODE	
	TRANSISTOR			
	Q3301	2SC1740S (R) -T	SI. TRANSISTOR	
	Q3302	2SC1740S (R) -T	SI. TRANSISTOR	
	Q3303	2SC1740S (R) -T	SI. TRANSISTOR	
	Q3304	2SC3271 (NP) -C1	SI. TRANSISTOR	
	Q3305	2SC3271 (NP) -C1	SI. TRANSISTOR	
	Q3306	2SC3271 (NP) -C1	SI. TRANSISTOR	
	OTHERS			
⚠		CE41603-002	C. R. T. SOCKET	

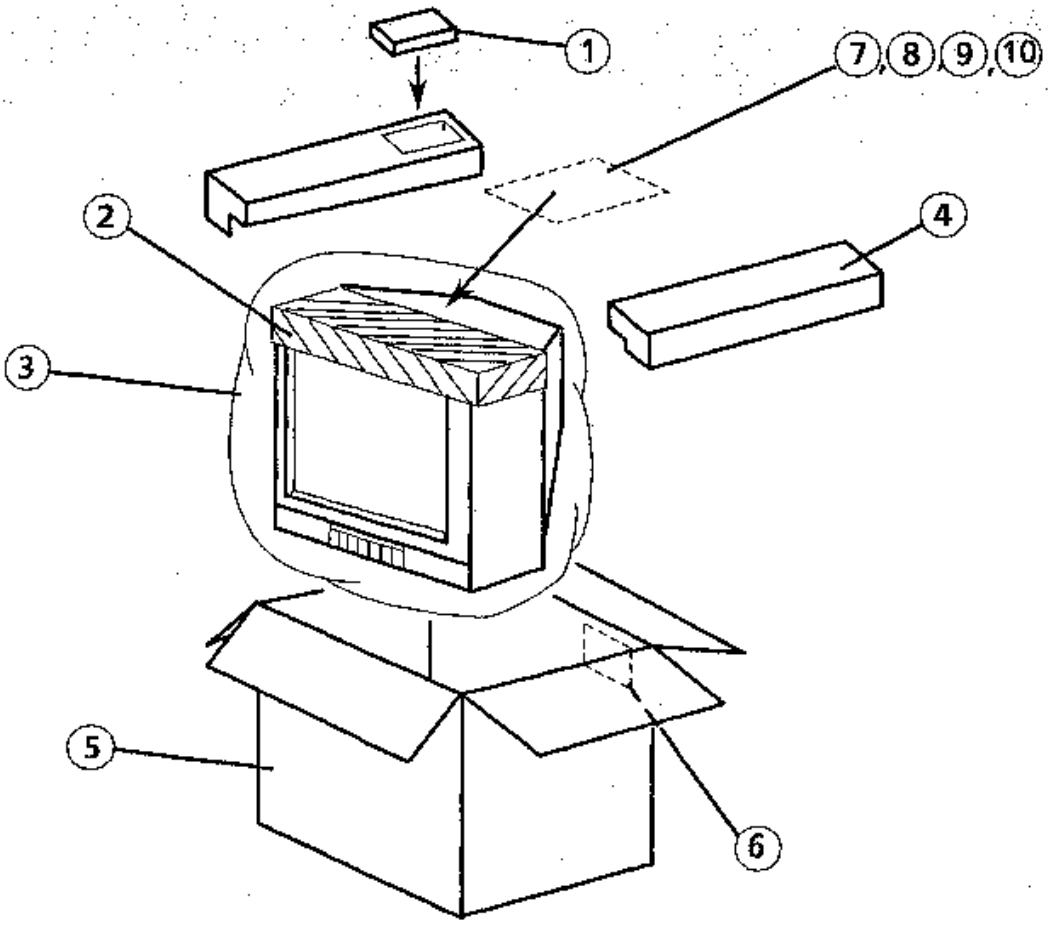
MTS PC BOARD Ass'y (SGY6001A(H2))

This pc boards are supplied as assemblies.

The component parts only the PC boards are available only when the parts are listed in the " PRINTED CIRCUIT BOARD PARTS LIST".

SYMBOL NO.	PART NO.	PART NAME	REMARKS		
RESISTOR					
R6623	QRV141F-4305AY	MF R	43kΩ	1/4W	F
R6628	QRV141F-6201AY	MF R	6.2kΩ	1/4W	F
R6630	QRV141F-3901AY	MF R	3.9kΩ	1/4W	F
R6610	QRV141F-473CZAY	MF R	47kΩ	1/4W	F
R6611	QRV141F-473CZAY	MF R	47kΩ	1/4W	F
CAPACITOR					
C6621	QEKC1EM-475GMZ	E CAP.	4.7μF	50V	M
C6622	QFLC1HK-123MZ	M CAP.	0.012μF	50V	K
C6623	QFN31EK-562ZJ1	M CAP.	5600pF	50V	K
C6624	QKF61EM-474GMZ	BP E CAP.	0.47μF	50V	M
C6625	QEKC1CM-476MZ	E CAP.	47μF	16V	M
C6627	QFN31EK-272ZJ1	M CAP.	2700pF	50V	K
C6628	QEKC1HM-475GMZ	E CAP.	4.7μF	50V	M
C6629	QEDS1CK-106BZ	TAN. CAP.	10μF	16V	K
C6610	QEDS1CK-335BZ	TAN. CAP.	3.3μF	16V	K
C6611	QEKC1HM-105GMZ	E CAP.	1μF	50V	M
C6612	QEKC1HM-475GMZ	E CAP.	4.7μF	50V	M
C6613	QEKC1HM-475GMZ	E CAP.	4.7μF	50V	M
C6614	QFLC1HK-473MZ	M CAP.	0.047μF	50V	K
C6615	QEKC1HM-475GMZ	E CAP.	4.7μF	50V	M
C6616	QEKC1HM-475GMZ	E CAP.	4.7μF	50V	M
C6617	QEKC1HM-475GMZ	E CAP.	4.7μF	50V	M
C6618	QEKC1HM-475GMZ	E CAP.	4.7μF	50V	M
TRANSISTOR					
Q6601	2SC2785(JH)-T	SI. TRANSISTOR			
Q6602	2SC2785(JH)-T	SI. TRANSISTOR			
Q6603	2SC2785(JH)-T	SI. TRANSISTOR			
IC					
IC6601	CXA1124AS	I. C.			

PACKING



PACKING PARTS LIST

SYMBOL NO.	PART NO.	PART NAME	REMARKS
1	RM-C424-KD	REMOCON	
2	CP30255-002-A	TOP COVER	
3	CP30258-002-A	POLY BAG	
4	CP10819-A0A-A	PACKING CUSHION	
5	CP10272-030-A	PACKING CASE	(AV-2761S)
5	CP10272-029-A	PACKING CASE	(AV-2751S)
6	CM20225-00A-A	REC. KEEP. CARD	
7	CM21229-B01	SAFETY TIPS	
8	BT-22113A	WARRANTY CARD	
9	BT-20108A	SERVICE INF CARD	
10	2751, 61SUS-13A	INST. BOOK	

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